Long-Term Temperature Monitoring Program 2002-04, Newfoundland and Labrador Region

D.R. Senciall, N.Y. Chen, P. Stead, and E.B. Colbourne

Science Branch
Department of Fisheries and Oceans
P.O. Box 5667
St. John's NL Canada A1C 5X1

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2006

LONG-TERM TEMPERATURE MONITORING PROGRAM 2002-04, NEWFOUNDLAND AND LABRADOR REGION

by

D.R. Senciall, N.Y. Chen, P. Stead, and E.B. Colbourne

Fisheries and Oceans Canada
Science Branch
P.O. Box 5667
St. John's NL A1C 5X1

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ABSTRACT

Sencial, D.R., Chen, N.Y., Stead, P., and Colbourne, E.B. 2006. Long-term temperature monitoring program 2002-04, Newfoundland and Labrador Region. Can. Tech. Rep. Hydrogr. Ocean Sci. 247: xi + 493 p.

Monthly summaries of the temperature statistics including minimum, maximum, mean, standard deviations, degree day 0, degree day 4 and the number of observations are presented for thermograph deployments from 2002 - 2004 in the inshore regions of Newfoundland and Labrador. In addition, the temperature time series and location map are presented for the sampling period of each deployment.

RÉSUMÉ

Sencial, D.R., Chen, N.Y., Stead, P., and Colbourne, E.B. 2006. Long-term temperature monitoring program 2002-04, Newfoundland and Labrador Region. Can. Tech. Rep. Hydrogr. Ocean Sci. 247: xi + 493 p.

On présente ici des résumés des statistiques mensuelles de température, y compris des minima, des maxima, des moyennes, des écarts-types, du degré-jour 0, du degré-jour 4 et du nombre d'observations, pour les thermographes mouillés de 2002 à 2004 dans les régions côtiéres du Terre-Neuve et du Labrador. On et la série chronologique correspondant à la période d'échantillonnage.

INTRODUCTION

Since the late 1960's fisheries scientists have been monitoring near-shore water temperatures at many locations around the bays and headlands off eastern Canada. The monitoring sites and the measurement periods were selected to meet the objectives of each individual process-oriented project, but all data were processed, archived and published as annual technical reports as part of a Long Term Temperature Monitoring Program (LTTMP) of the Department of Fisheries and Oceans. The data archive that resulted from this program consists of temperature time series from a large number of sites distributed in the near shore region dating back to 1967 in the Newfoundland and Labrador region and to 1978 in the Scotia-Fundy and Gulf of St. Lawrence regions.

The quality controlled time series data from the thermographs are archived at the Northwest Atlantic Fisheries Centre (NAFC), and also avaiable at the website: http://www.mar.dfo-mpo.gc.ca/science/ocean/. The data are available upon request. This report presents a summary of the data from each deployment in the Newfoundland and Labrador region from 2002 to 2004. Previous LTTMP data and technical reports in this series are listed in the bibliography.

INSTRUMENTATION

The primary instrument used for collecting water temperatures in the near-shore region during the early years of the program was the Ryan model J-180 and J-90 analogue thermographs which recorded data on paper strip charts that were subsequently digitized upon recovery for processing. These instruments had a temperature range of -5 to 25°C with an accuracy of ±2.0 % or 0.6°C. The Ryan TempMentor Digital thermograph was introduced in the mid 1980s followed by digital Hugrún Seamon thermograph in the late 1980s. The Ryan TempMentor thermographs are small digital recording instruments, which can record up to 6361 temperature readings at sample intervals ranging from 1 second to 2 hours. This instrument has a range of -32 to 70°C with an accuracy of ±0.3°C. The Hugrún Seamon thermographs, introduced in the late 1980s are compact microprocessor controlled temperature recorders with the electronics and probe housed in a strong waterproof case. This instrument has a temperature range of -2.0 to 38.0°C with an accuracy of ± 0.1°C and a resolution of 0.05°C and can store up to 5400 temperature readings with sampling intervals from 1.0 second to 24.0 hours. The Vecom Minilog-T thermograph introduced in 1998 records up to 8064 temperature readings at sample intervals from 1 second to 6 hours. Two versions of this thermograph were used, one with a range of -4 to 20°C with an accuracy of ±0.2°C and a resolution of 0.1°C and one with a range of -5 to 35°C with an accuracy of ±0.3°C and a resolution of 0.2°C. During 2002 - 2004 all thermographs in use at the Department of Fisheries and Ocean's Northwest Atlantic Fisheries Centre in St. John's were digital manufactured by Hugrún and Vemco. The type of instrument is identified on the summary page for each deployment.

CALIBRATION

Each digital thermograph was calibrated prior to its deployment using temperature calibration facilities located at the Northwest Atlantic Fisheries Center. The sensor of each thermograph is submerged in a Guildline Model 5010 constant temperature water bath of 40% ethylene glycol and water where it is subjected to a series of known stable temperatures. The microprocessor bath control system provides constant cooling and heating for any temperature setting in the range -9.9 to 65.0°C. A controlled temperature is achieved in 10 to 15 minutes and maintained to within 0.002°C. Several thermographs are loaded at one time and recordings are made at -2.0, 0.0, 10.0, 15.0 and 20.0°C. Approximately 4 hours are required at each temperature setting to allow for stabilization of the water bath. The thermographs are then calibrated by entering the calibration data in a factory supplied software package. Data collected by these instruments are then automatically corrected when the data is downloaded to the computer.

DATA ANALYSIS

The data translation, calibration and downloading was carried out using the PC software supplied by the manufacturer of each instrument. All data were then archived into a common digital format on PCs for further processing using custom in-house software. Any large spikes in the data were edited and replaced by the average of the adjacent two valid points. Each temperature data time series was also trimmed by removing invalid data collected during deployment and recovery of the instrument.

DATA PRODUCTS

The quality controlled time series was used to generate monthly temperature statistics for each deployment. These included minimum and maximum temperature and the day that it occurred, the mean temperature, standard deviation, degree-day 0, degree-day 4 and the number of samples for the month. It should be noted that although the statistics are generated for each month during the deployment, some months are incomplete so that the statistics only apply to the portion of the month in which there were observations. No attempts were made to extrapolate to the full month in these cases.

In this report we present a one page summary of the deployment, which includes; station name and station number, instrument type and serial number, station position and instrument deployment depth, water depth , sampling interval, and deployment and recovery dates. A table of the monthly statistics follows for each deployment period. The complete data set for each station is then presented as a time series plot on a time scale of 120 days per panel. If the data record was more than 120 days, a second 120-day panel was produced beneath the first.

A station location map is also provided with each time series plot. The boundaries of the unit fishing areas in the inshore regions defined by the Department of Fisheries and Oceans are shown in Figure 1. The data in this report are organized by year in alphabetical order in each unit area starting in NAFO Division 2H and proceeding clockwise around the island of Newfoundland. Data from deployments in various freshwater rivers and ponds around Newfoundland are listed in a separate appendix at the end of the report in alphabetical order. For the purpose of processing, deployment sites were given a unique station number starting at 100 for each year. This report contains data from a total of 82 deployments of which 20 were in freshwater for 2002, 85 deployments of which 19 were in freshwater for 2003, 37 deployments of which 17 were in freshwater for 2004. A complete list of deployments during the three years is contained in the table of contents. Some of the time series actually started in 2001 but the instruments were not recovered until 2002. The locations of all deployment sites during 2002 and 2004 are shown in Figure 2, identified by station number.

ACKNOWLEDGMENTS

We thank the fisheries scientists at the Northwest Atlantic Fisheries Center for making the thermograph data available.

This document is also available digitally in Adobe PDF format from the authors.

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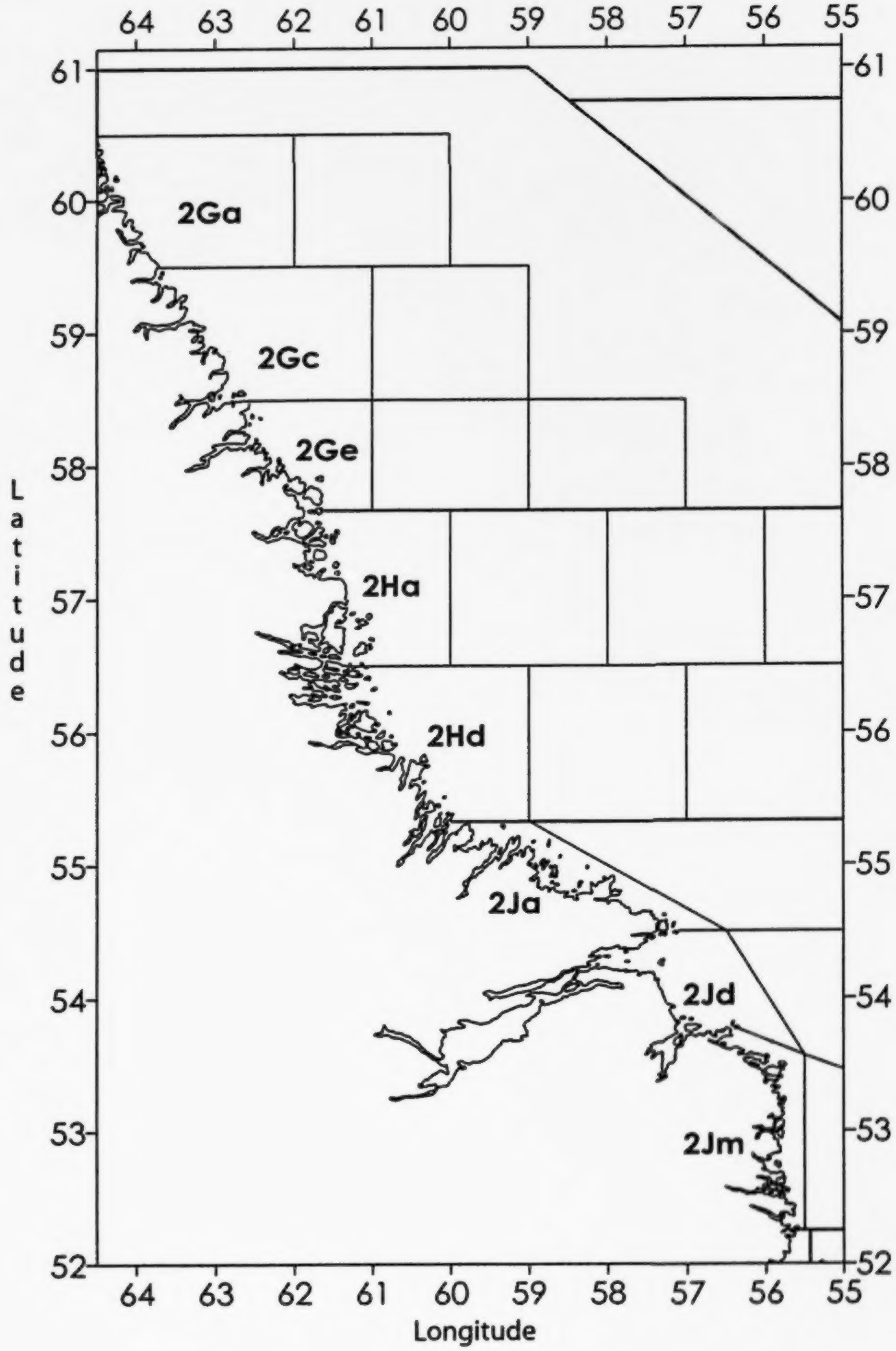
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54
53
52
Latitude
Longitude
2Ga
2Gc
2Ge
2Ha
2Hd
2Ja
2Jd
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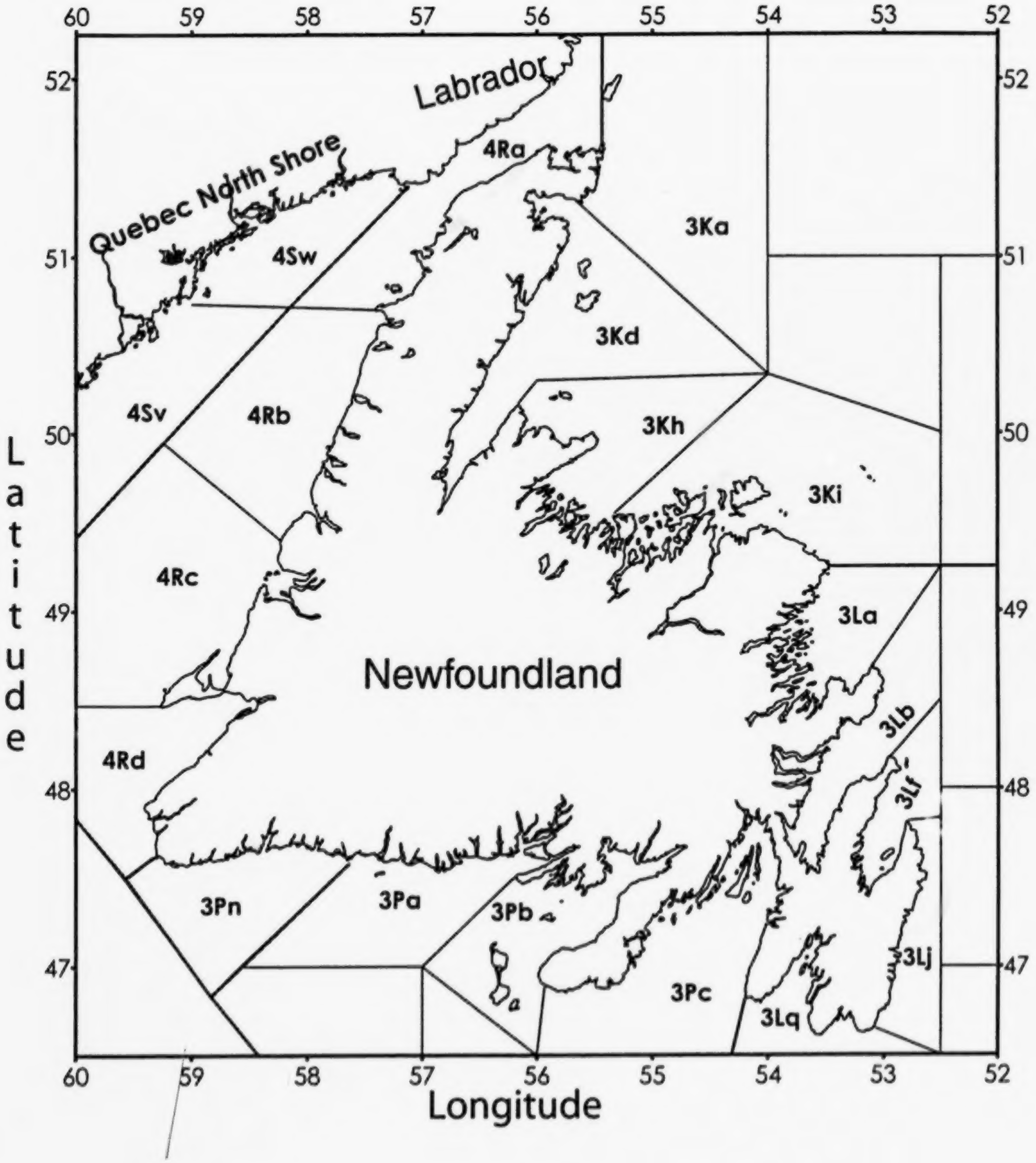
Figure 1a. Labrador inshore Unit Fishing Areas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3Pb
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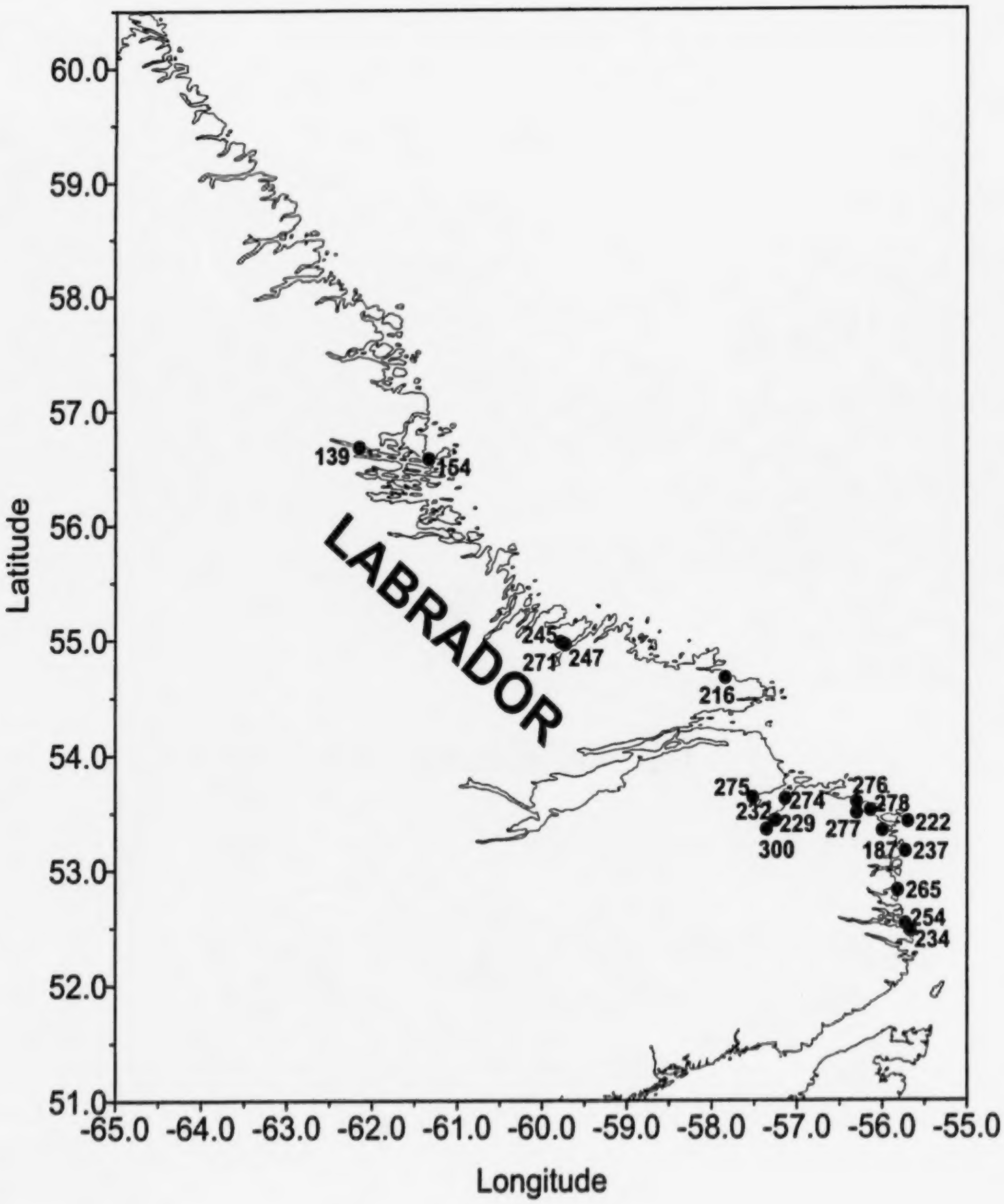
3Pc
3Lq
Latitude
Longitude

Figure 1b. Newfoundland inshore Unit Fishing Areas.



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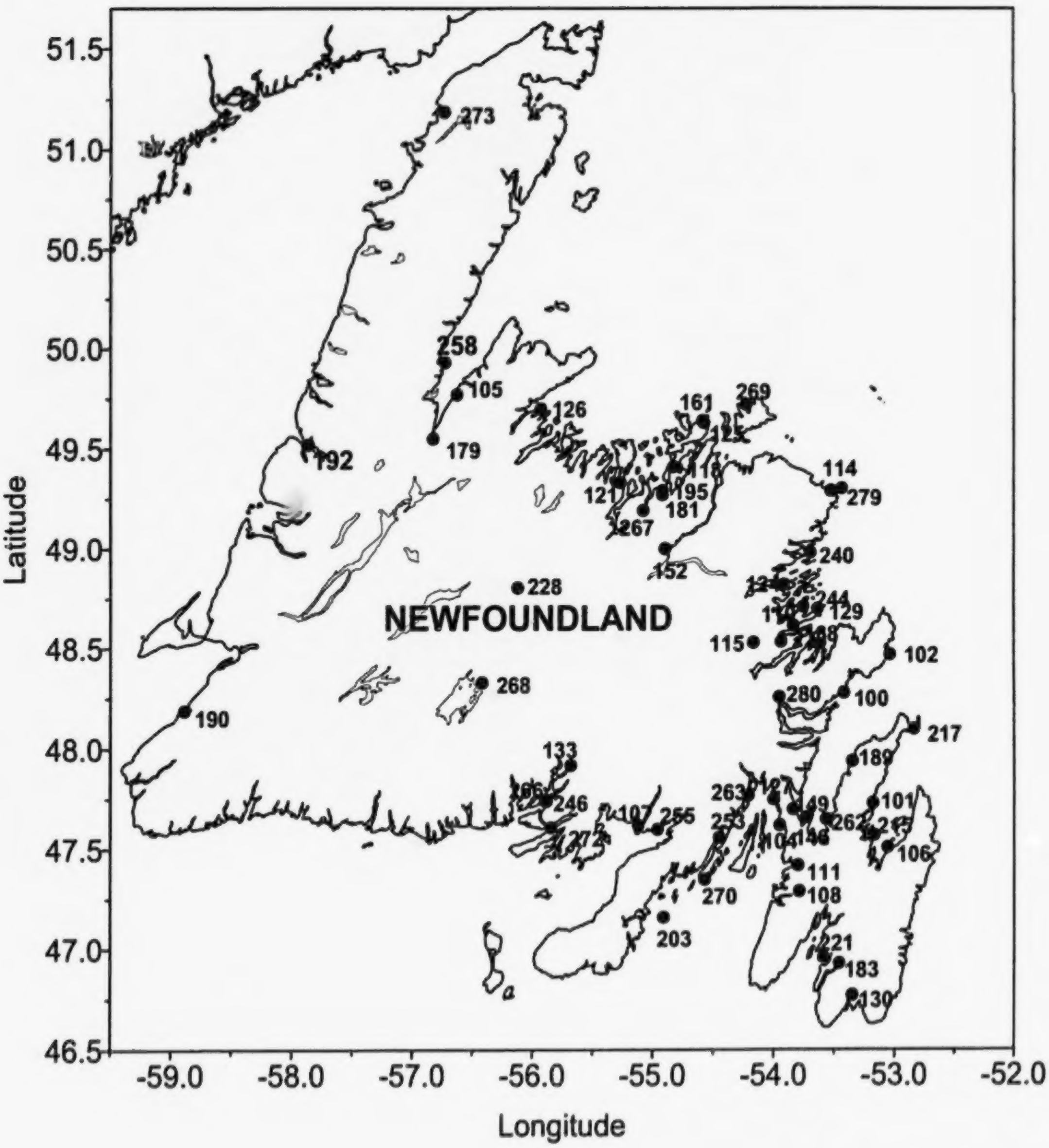
58.0
57.0
56.0
55.0
54.0
53.0
52.0
51.0
-65.0
-64.0
-63.0
-62.0
-61.0
-60.0
-59.0
-58.0
-57.0
-56.0
-55.0
Longitude
LABRADOR
139
164
245
271
247
216
275
232
274
229
300
276
278
222
277
187
237
265
254
234

Figure 2a. The location thermograph deployments in Labrador during 2002-2004. The labels indicate station numbers.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50.5
50.0
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Latitude
-59.0
-58.0
-57.0
-56.0
-55.0
-54.0
-53.0
-52.0
Longitude
NEWFOUNDLAND
273
258
105
179
192
126
121
267
181
195
118
161
269
125
152
228
114
279
240
244
129
115
102
280
100
190
268
217
189
133
246
107
255
263
127
149
253
104
146
262
101
106
111
108
270
203
221
183
130

Figure 2b. The location of thermograph deployments in Newfoundland during 2002 - 2004. The labels indicate station numbers

Table 1: List of Stations for 2002 - 2004

STN#	STATION NAME	LAT	LONG
100	OLD BONAVENTURE	48.28	53.42
101	BRISTOL'S HOPE	47.73	53.18
102	MELROSE, TRINITY BAY	48.47	53.04
105	WEST PORT	49.77	56.63
106	UPPER GULLIES	47.51	53.04
108	NORTH EAST PLACENTIA	47.29	53.79
110	STOCK COVE, BONAVISTA BAY	48.71	53.76
111	SHAG ROCKS, PLACENTIA BAY	47.42	53.80
114	CAPE FREELS	49.25	53.53
115	LOWER TERRA NOVA RIVER	48.53	54.17
118	COMFORT COVE, N. D. BAY	49.41	54.83
124	MIDDLE BROOK FISHWAY, GAMBO	48.82	53.92
127	ARNOLD'S COVE	47.75	54.00
129	SALVAGE	48.70	53.64
130	NORTH EAST TREPASSEY	46.77	53.35
133	CONNE RIVER	47.92	55.68
139	NAIN (TIKKOATOKAK BAY)	56.68	62.15
146	BELLEVUE	47.66	53.73
149	CHANCE COVE	47.68	53.80
152	SALMON BROOK	49.00	54.90
154	NAIN (LOON ISLAND)	56.58	61.33
179	HAMPDEN, WHITE BAY	49.55	56.83
181	CAMBELLTON RIVER	49.27	54.92
183	HOLYROOD POND	46.93	53.46
187	SANDHILL COVE	53.57	56.35
189	WINTERTON	47.94	53.35
190	LOWER HIGHLAND RIVER	48.19	58.89
192	NORRIS PT., BONNE BAY	49.52	58.87
195	CAMPBELLTON (SALT WATER)	49.29	54.92
215	Port De Grave	47.57	53.17
221	Mall Bay	53.42	55.70
222	Black Tickle	53.42	55.70
226	Buckley's Cove,B.Bay	48.59	53.92
228	Exploits River	48.93	55.67
229	Paradise River (Labrador)	53.43	57.25
237	Penny's Harbour	53.16	55.73
240	Centerville	48.98	53.70
245	English River	54.97	59.75
247	English River (salt water)	54.96	59.72
254	william's Harbour	52.53	55.73
255	New Harbour, Fortune Bay	47.60	54.96
258	Jackson's Arm	49.93	56.73
262	Hopeall	47.65	53.57
265	Triangle, Labrador	52.82	55.82
267	Thwart Island	49.19	55.08
269	Fogo	49.72	54.23
271	English River Pond	54.98	59.78
272	MATCHINIS BAY d' ESPOIR	47.63	55.89
273	ST. BARBE BAY	51.12	56.45

274	DYKES RIVER	53.61	57.04
275	EAGLE RIVER	53.56	57.47
276	SANDHILL RIVER	54.97	59.70
277	SANDHILL RIVER (SALT)	53.59	56.35
278	GILBERT BAY	53.57	56.35
279	GULL ISLAND	49.25	53.43
280	TERRA NOVA PARK	48.56	53.96
281	SANDHILL RIVER POND	53.57	53.34
300	SW BROOK (SALT)	53.44	57.27

Long-Term Temperature Monitoring Program 2002, Newfoundland and Labrador Region

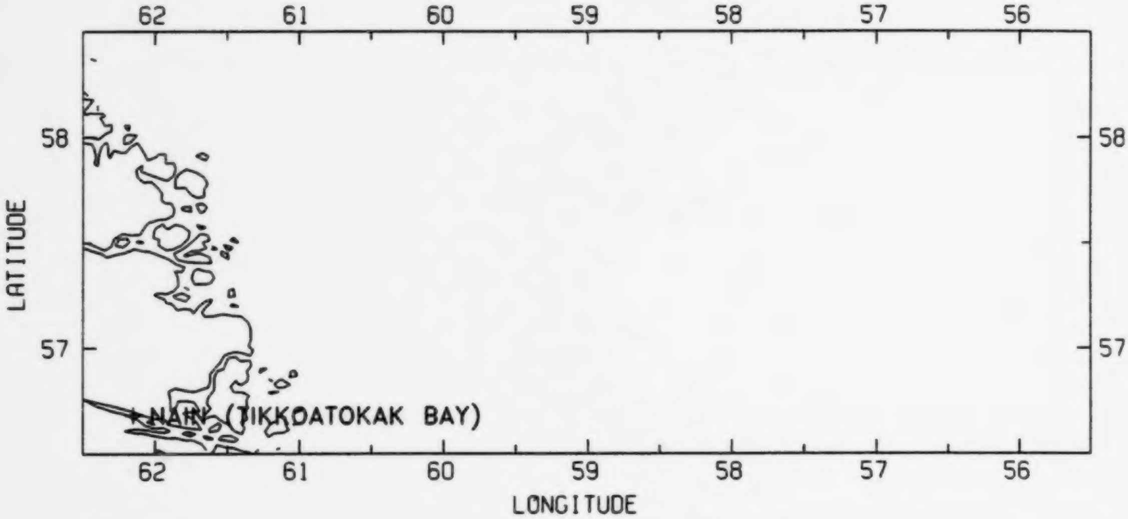
Appendix 1. Times Series Plots and Monthly Statistics from Unit Area 2Ha.

THERMOGRAPH DATA SUMMARY: NAIN (TIKKOATOKAK BAY) (139) 2002

STATION NAME:	NAIN (TIKKOATOKAK BAY)
STATION NUMBER:	139
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003266
LATITUDE:	56.68° N
LONGITUDE:	62.15° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-JUL-2002 16:00 GMT
RECOVERY DATE/TIME:	09-SEP-2002 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	0.75	188	4.90	190	2.59	0.60	69.6	0.0	632
AUG-2002	2.35	220	6.10	238	3.64	0.68	112.8	3.4	744
SEP-2002	3.45	245	5.10	245	4.26	0.26	38.4	2.5	210
T.PERIOD	0.75	188	6.10	238	3.30	0.86	220.8	5.9	1586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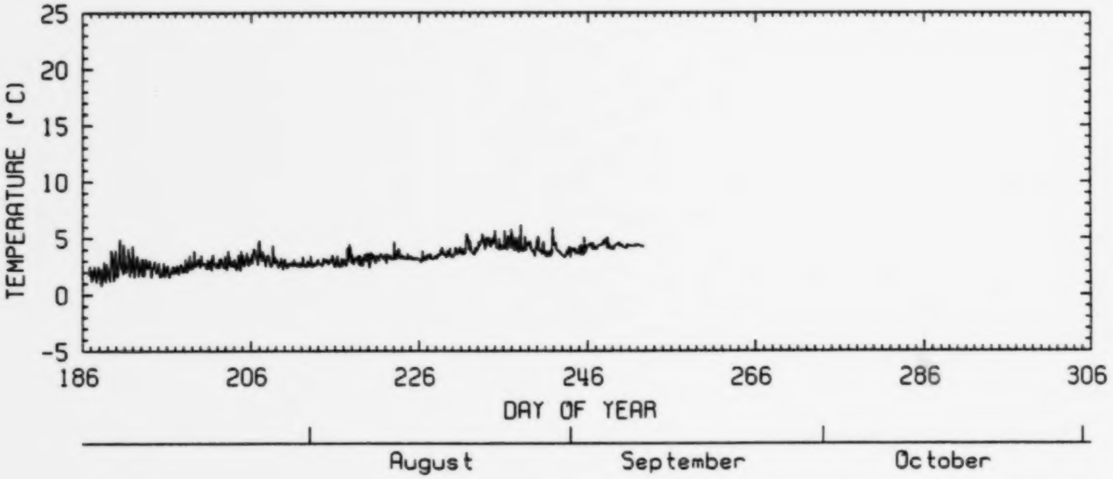
LATITUDE
+NAIN (TIKKOATOKAK BAY)
LONGITUDE



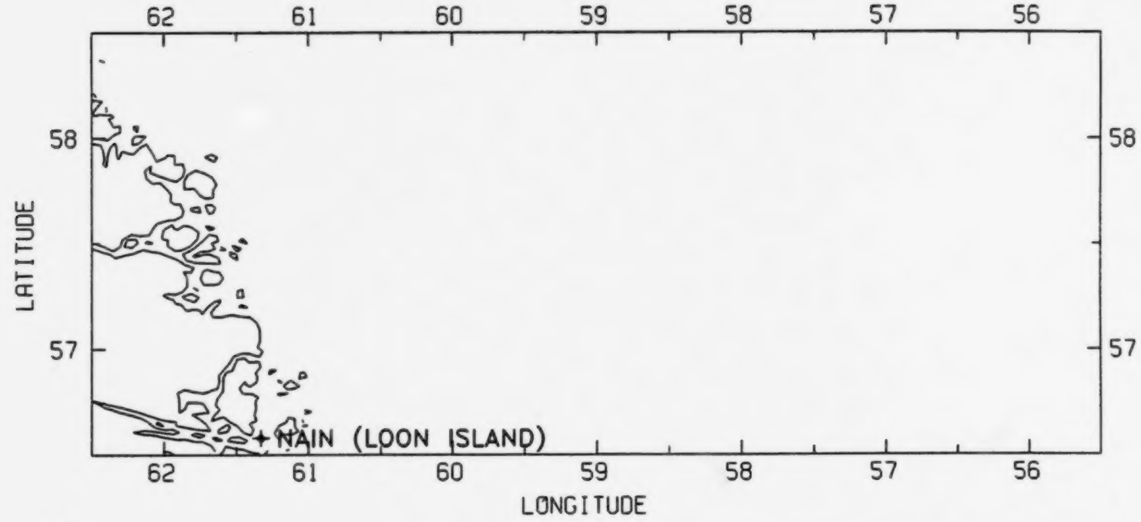
Start: 5-JUL-2002 End: 9-SEP-2002 Inst. S/N:3266

THERMOGRAPH DATA SUMMARY: NAIN (LOON ISLAND) (154) 2002

STATION NAME:	NAIN (LOON ISLAND)
STATION NUMBER:	154
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006744
LATITUDE:	56.58° N
LONGITUDE:	61.33° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUL-2002 17:00 GMT
RECOVERY DATE/TIME:	09-SEP-2002 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	1.80	212	3.35	204	2.61	0.27	26.1	0.0	223
AUG-2002	1.90	213	4.35	243	3.02	0.44	93.7	0.1	744
SEP-2002	3.20	247	4.60	245	3.90	0.32	35.0	0.4	208
T.PERIOD	1.80	212	4.60	245	3.10	0.56	154.9	0.6	1175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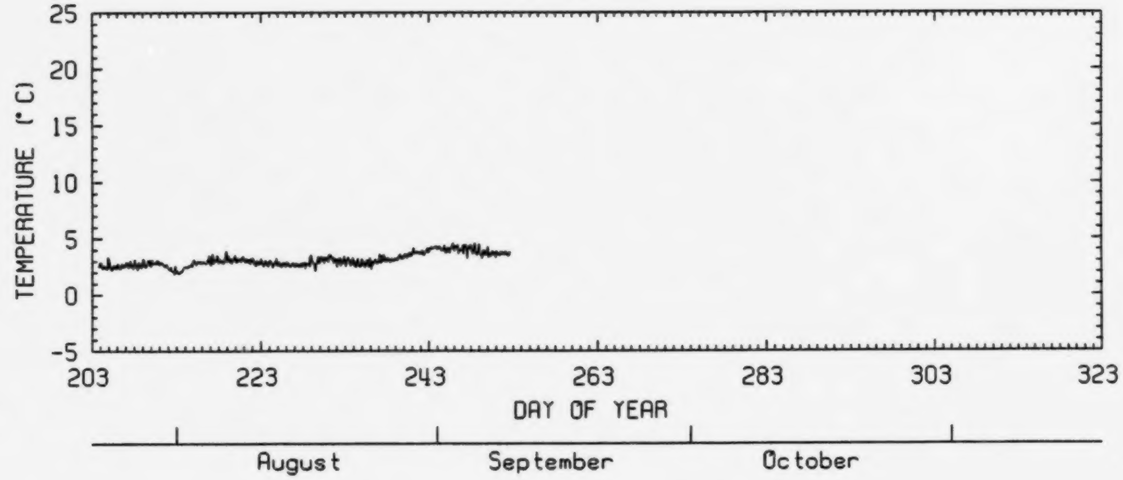
LATITUDE
NAIN (LOON ISLAND)
LONGITUDE



Start: 22-JUL-2002 End: 9-SEP-2002 Inst. S/N:6744

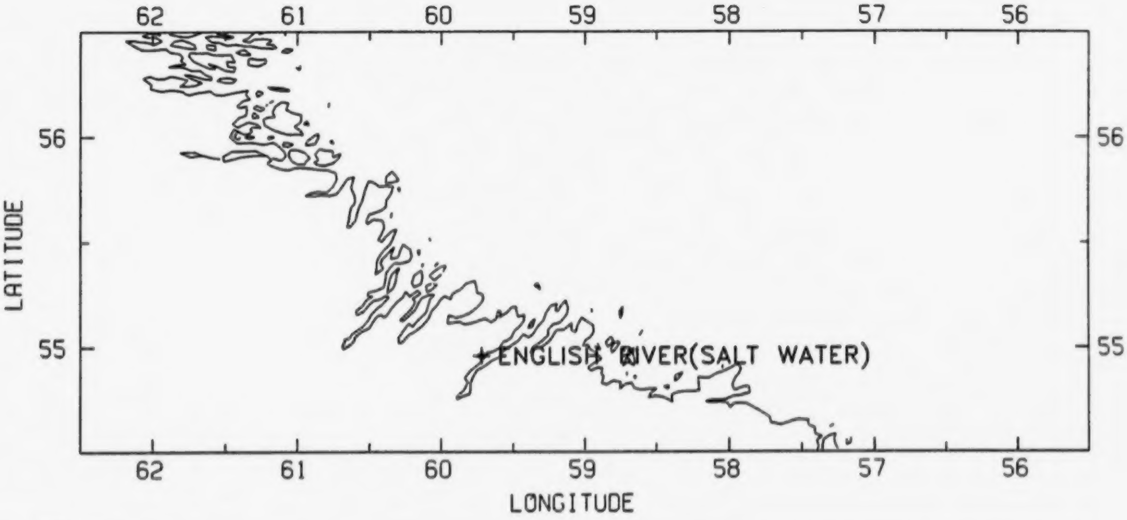
Appendix 2. Time Series Plots and Monthly Statistics from Unit Area 2Ja.

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER(SALT WATER) (247) 2002

STATION NAME:	ENGLISH RIVER(SALT WATER)
STATION NUMBER:	247
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007417
LATITUDE:	54.96° N
LONGITUDE:	59.72° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-JUL-2002 19:00 GMT
RECOVERY DATE/TIME:	25-SEP-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	5.30	202	14.50	209	10.16	1.73	202.0	122.0	461
AUG-2002	4.60	233	15.50	226	10.34	2.04	320.5	196.5	744
SEP-2002	6.10	261	10.90	249	8.14	1.12	203.6	103.6	595
T.PERIOD	4.60	233	15.50	226	9.57	1.98	726.1	422.1	1800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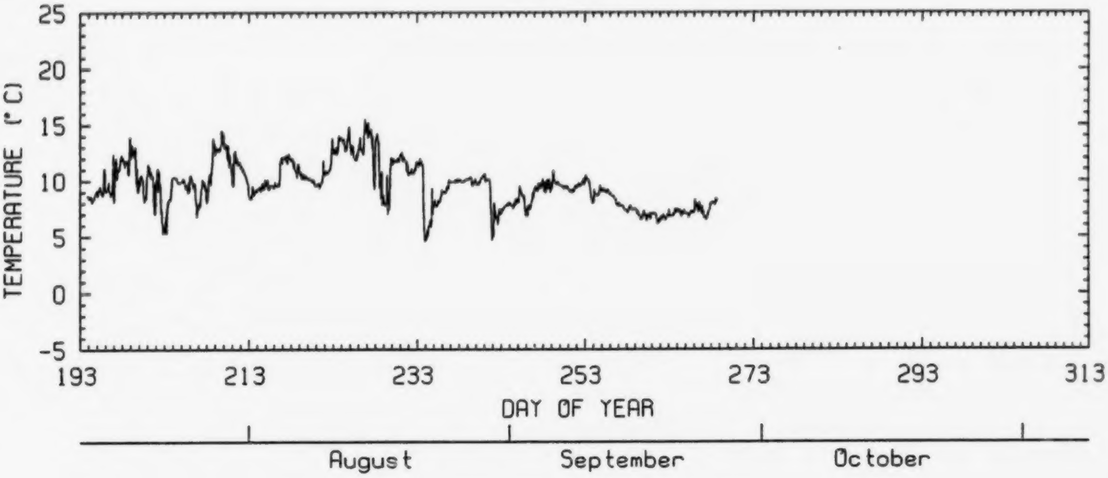
LONGITUDE
+ENGLISH RIVER(SALT WATER)



Start: 12-JUL-2002 End: 25-SEP-2002 Inst. S/N:7417

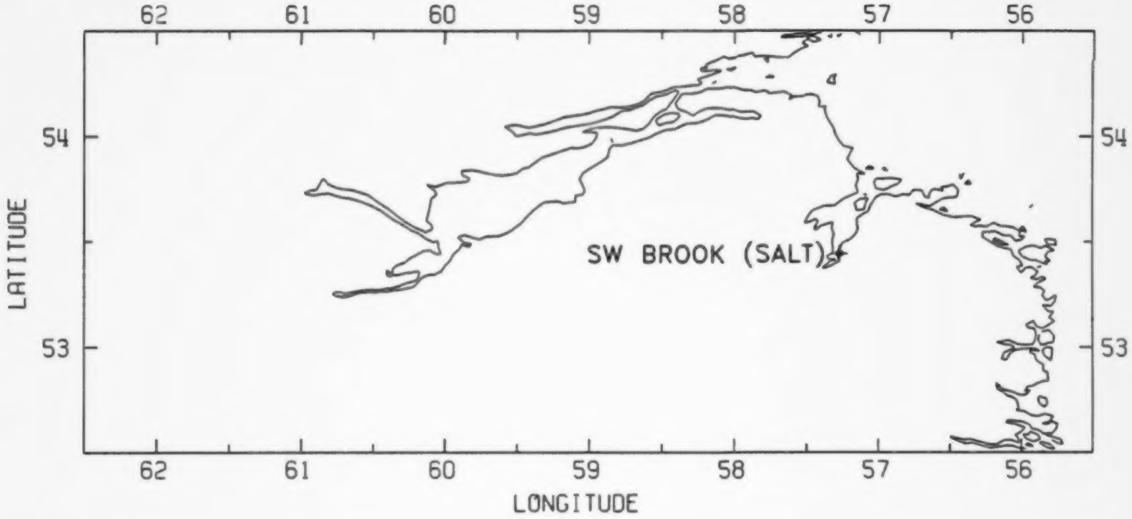
Appendix 3. Times Series Plots and Monthly Statistics from Unit Area 2Jd

THERMOGRAPH DATA SUMMARY: SW BROOK (SALT) (300) 2002

STATION NAME:	SW BROOK (SALT)
STATION NUMBER:	300
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007416
LATITUDE:	53.44° N
LONGITUDE:	57.27° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUN-2002 20:00 GMT
RECOVERY DATE/TIME:	01-OCT-2002 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	2.20	174	15.10	177	9.27	2.76	84.9	48.8	196
JUL-2002	2.30	182	14.80	200	8.55	2.88	265.1	141.1	742
AUG-2002	4.40	228	14.60	239	9.95	2.31	308.3	184.3	744
SEP-2002	5.90	246	13.50	253	8.84	1.26	265.2	145.2	720
OCT-2002	7.50	274	8.00	274	7.73	0.18	7.7	3.7	22
T.PERIOD	2.20	174	15.10	177	9.12	2.37	931.2	523.2	2424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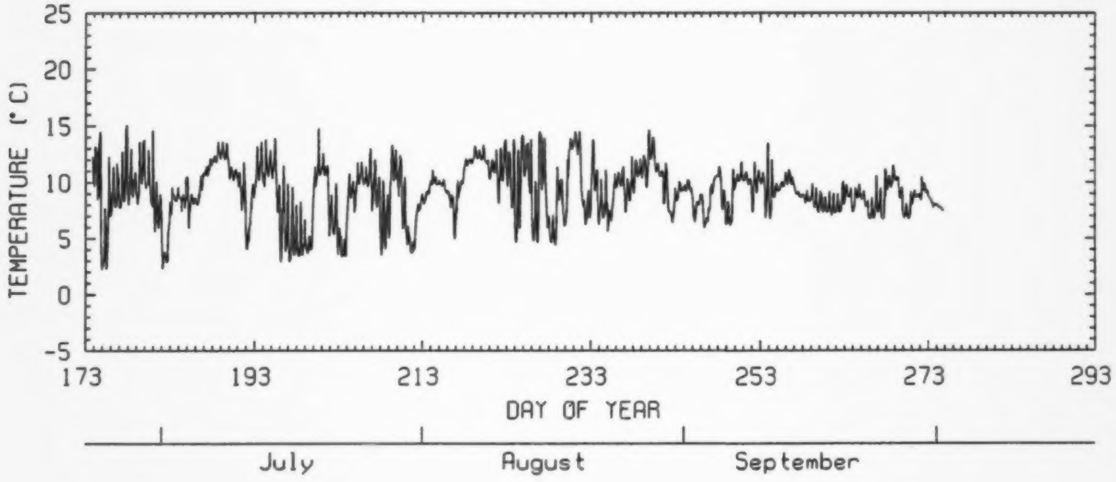
LATITUDE
SW BROOK (SALT)
LONGITUDE



Start: 22-JUN-2002 End: 1-OCT-2002 Inst. S/N:7416

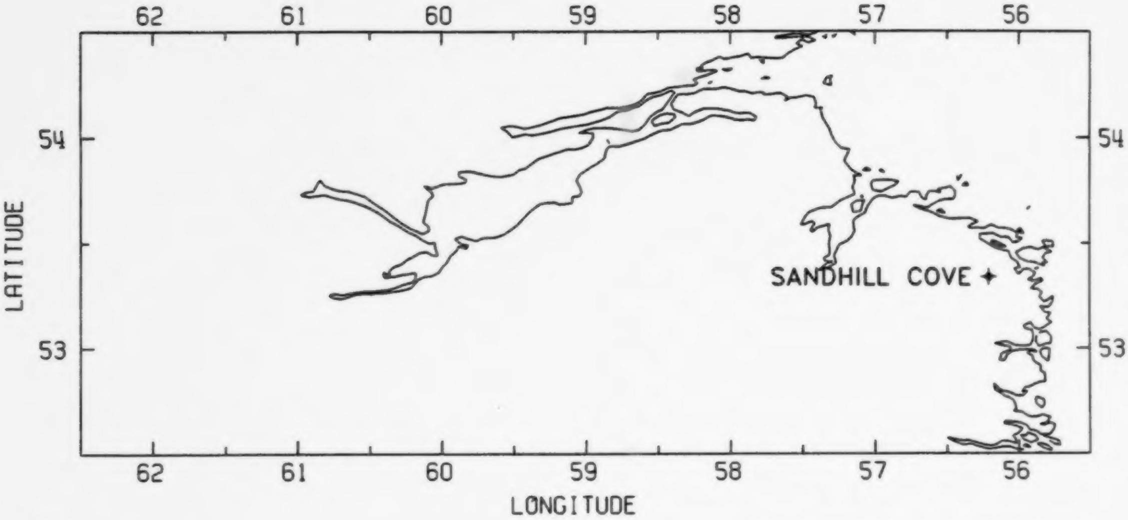
Appendix 4. Time Series Plots and Monthly Statistics from Unit Area 2Jm

THERMOGRAPH DATA SUMMARY: SANDHILL COVE (187) 2002

STATION NAME:	SANDHILL COVE
STATION NUMBER:	187
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004021
LATITUDE:	53.34° N
LONGITUDE:	56.21° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-JUN-2002 00:00 GMT
RECOVERY DATE/TIME:	11-SEP-2002 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	12.10	180	17.70	181	13.90	1.11	97.3	69.3	168
JUL-2002	13.30	195	21.40	184	17.68	1.73	548.1	424.1	744
AUG-2002	11.80	220	21.30	229	14.93	2.26	462.7	338.7	744
SEP-2002	11.20	254	20.30	248	15.07	2.50	164.7	120.7	256
T.PERIOD	11.20	254	21.40	184	15.93	2.48	1272.8	952.8	1912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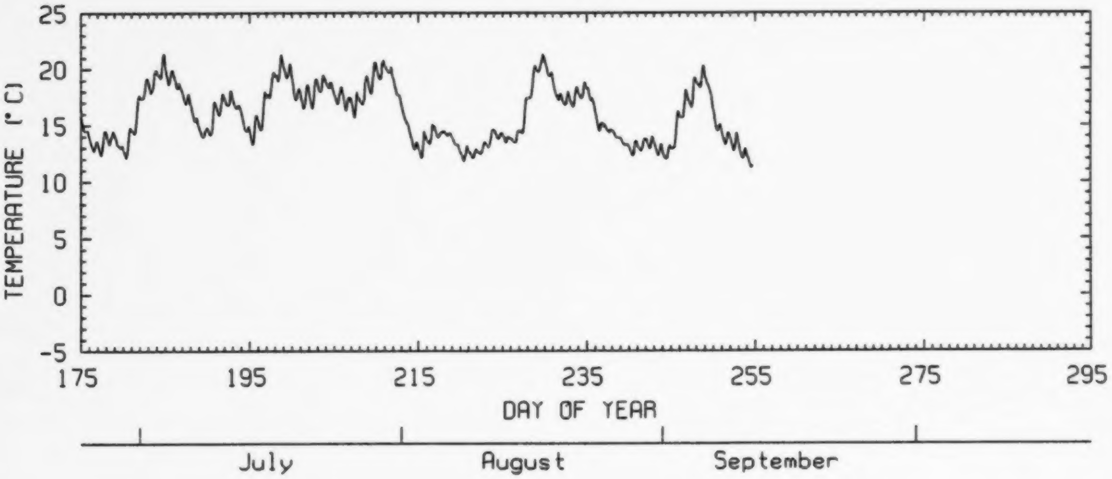
LATITUDE
LONGITUDE
SANDHILL COVE +



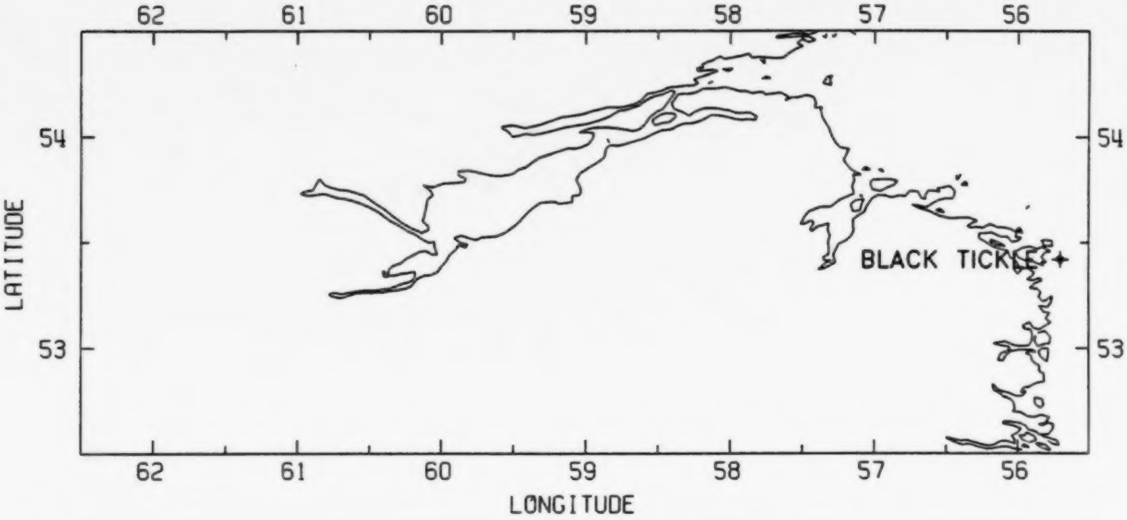
Start: 24-JUN-2002   End: 11-SEP-2002   Inst. S/N:4021

THERMOGRAPH DATA SUMMARY: BLACK TICKLE (222) 2002

STATION NAME:	BLACK TICKLE
STATION NUMBER:	222
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007408
LATITUDE:	53.42° N
LONGITUDE:	55.70° W
INSTRUMENT DEPTH:	25 m
WATER DEPTH:	26 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUL-2002 14:00 GMT
RECOVERY DATE/TIME:	20-SEP-2002 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	-1.40	210	0.00	212	-0.93	0.24	0.0	0.0	226
AUG-2002	-1.00	219	6.80	238	2.78	1.95	86.3	8.6	744
SEP-2002	2.00	254	5.80	249	4.38	0.76	88.0	10.1	467
T.PERIOD	-1.40	210	6.80	238	2.71	2.27	174.3	18.8	1437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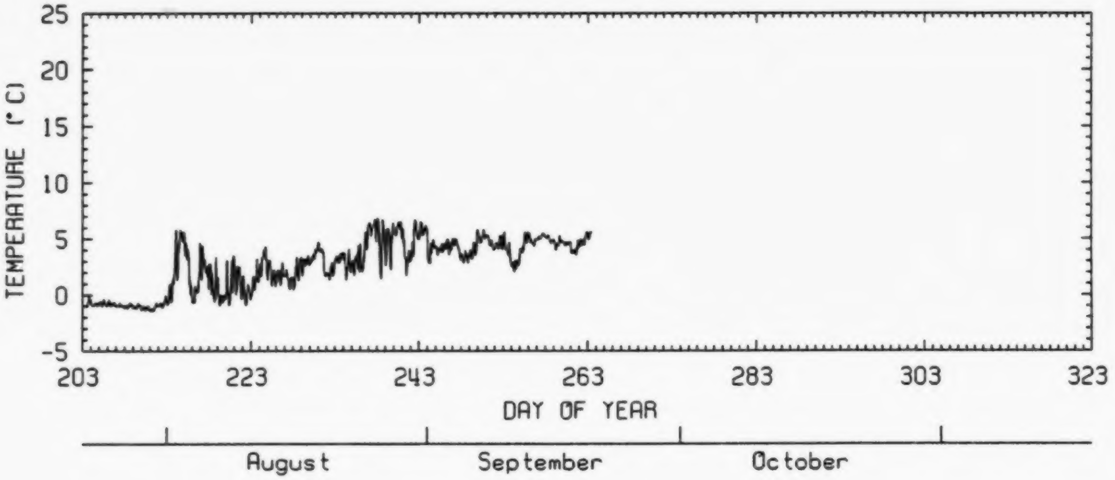
LATITUDE
LONGITUDE
BLACK TICKLE



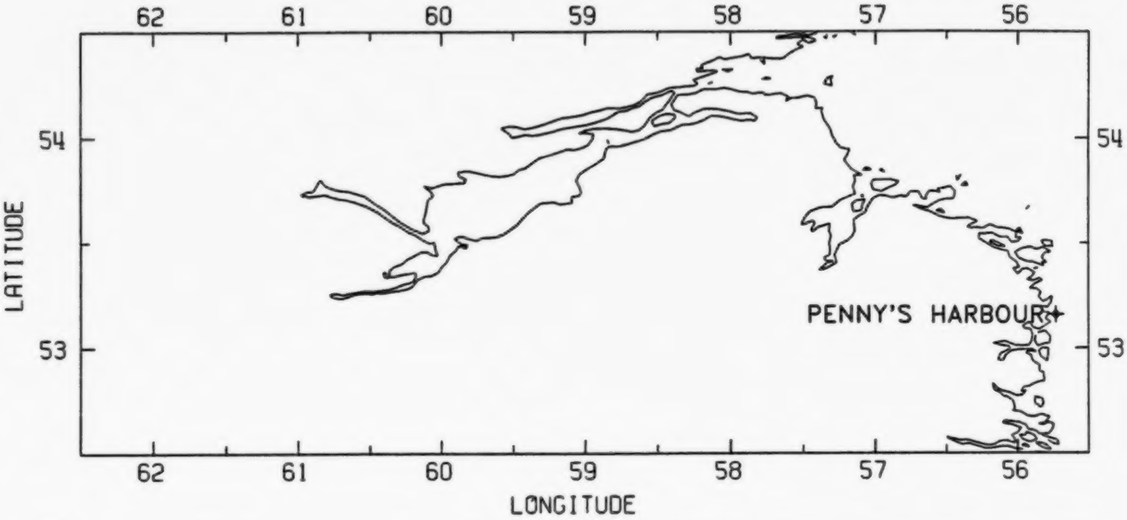
Start: 22-JUL-2002 End: 20-SEP-2002 Inst. S/N:7408

THERMOGRAPH DATA SUMMARY: PENNY'S HARBOUR (237) 2002

STATION NAME:	PENNY'S HARBOUR
STATION NUMBER:	237
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007410
LATITUDE:	53.16° N
LONGITUDE:	55.73° W
INSTRUMENT DEPTH:	24 m
WATER DEPTH:	26 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-AUG-2002 13:00 GMT
RECOVERY DATE/TIME:	25-SEP-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2002	-0.90	228	7.50	240	2.57	1.84	45.4	3.4	419
SEP-2002	0.70	245	6.10	263	3.96	1.30	99.0	10.8	588
T.PERIOD	-0.90	228	7.50	240	3.38	1.69	144.4	14.2	1007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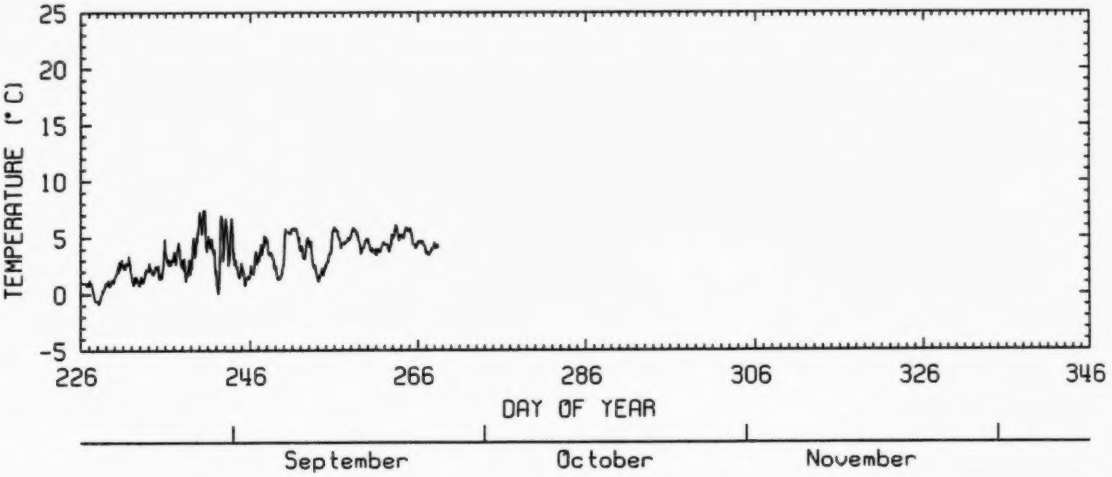
LATITUDE
LONGITUDE
PENNY'S HARBOUR



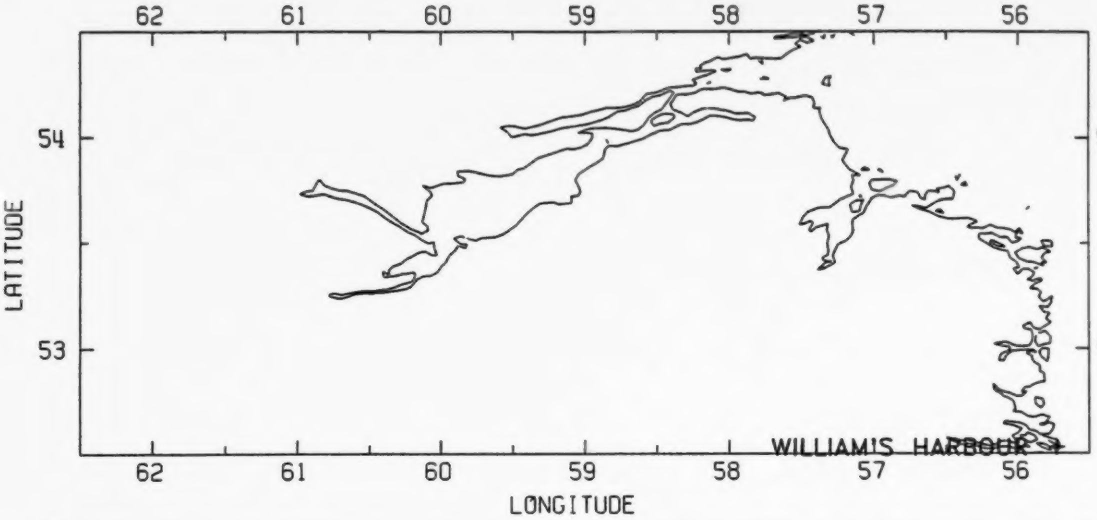
Start: 14-AUG-2002 End: 25-SEP-2002 Inst. S/N: 7410

THERMOGRAPH DATA SUMMARY: WILLIAM'S HARBOUR (254) 2002

STATION NAME:	WILLIAM'S HARBOUR
STATION NUMBER:	254
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007411
LATITUDE:	52.53° N
LONGITUDE:	55.73° W
INSTRUMENT DEPTH:	37 m
WATER DEPTH:	38 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-JUL-2002 00:00 GMT
RECOVERY DATE/TIME:	01-OCT-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	-1.20	211	-1.00	211	-1.06	0.09	0.0	0.0	48
AUG-2002	-1.20	213	6.40	240	0.43	1.76	25.6	1.1	744
SEP-2002	-0.10	246	5.90	251	3.34	1.21	100.1	5.1	720
OCT-2002	3.70	274	5.00	274	4.39	0.48	4.4	0.4	17
T.PERIOD	-1.20	211	6.40	240	1.79	2.14	130.1	6.6	1529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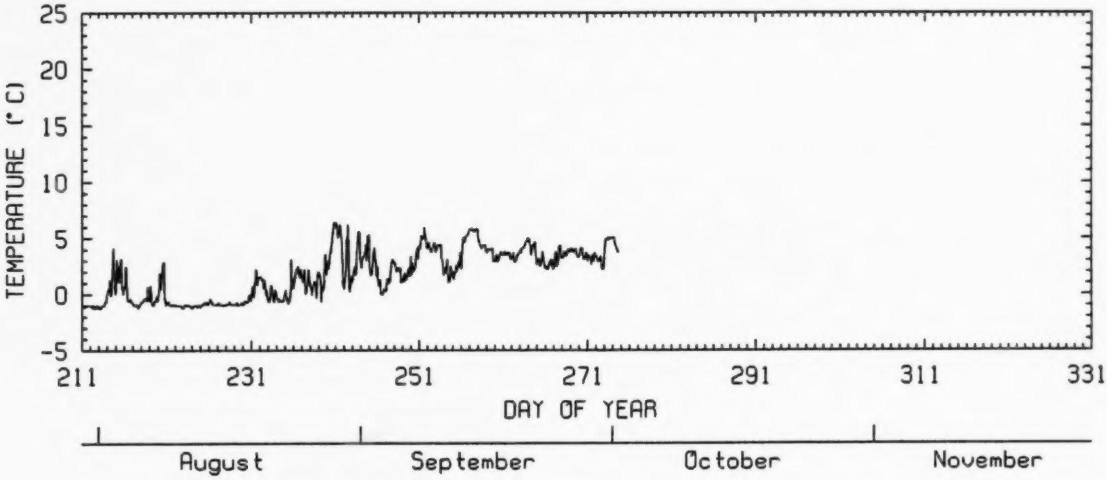
LATITUDE
LONGITUDE
WILLIAM'S HARBOUR



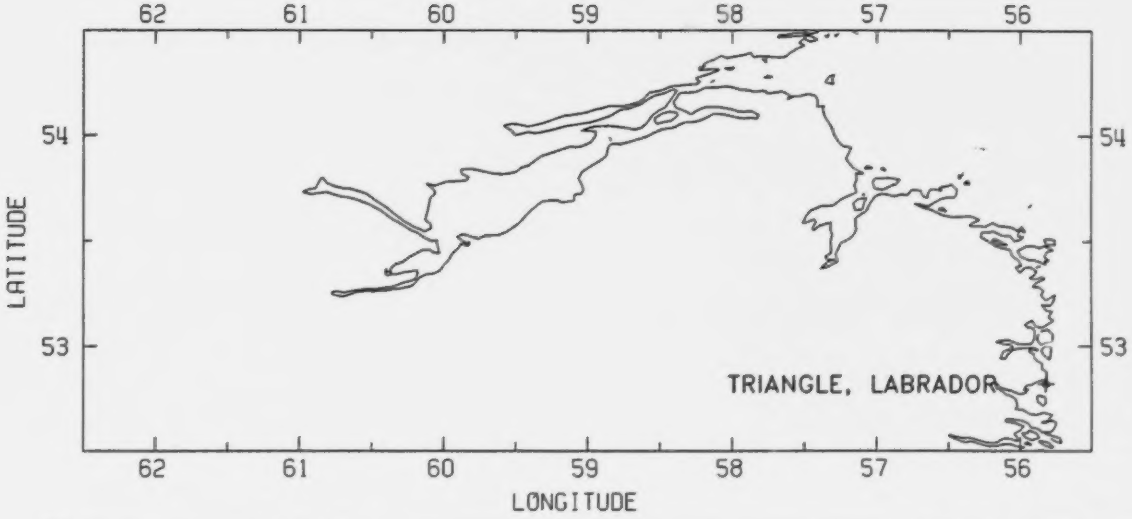
Start: 30-JUL-2002 End: 1-OCT-2002 Inst. S/N:7411

THERMOGRAPH DATA SUMMARY: TRIANGLE, LABRADOR (265) 2002

STATION NAME:	TRIANGLE, LABRADOR
STATION NUMBER:	265
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007409
LATITUDE:	52.82° N
LONGITUDE:	55.82° W
INSTRUMENT DEPTH:	31 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUL-2002 23:00 GMT
RECOVERY DATE/TIME:	19-SEP-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	-1.40	204	0.00	205	-0.86	0.28	0.0	0.0	217
AUG-2002	-1.20	221	7.70	240	1.60	2.33	55.3	6.9	744
SEP-2002	1.70	245	6.70	244	4.25	1.03	80.7	9.2	444
T.PERIOD	-1.40	204	7.70	240	2.06	2.48	136.0	16.1	1405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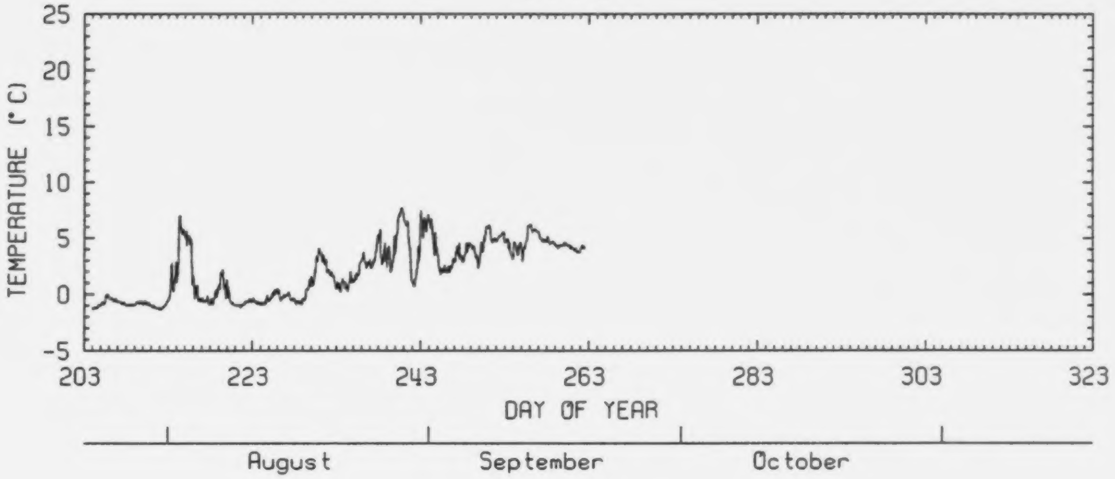
LATITUDE
LONGITUDE
TRIANGLE, LABRADOR



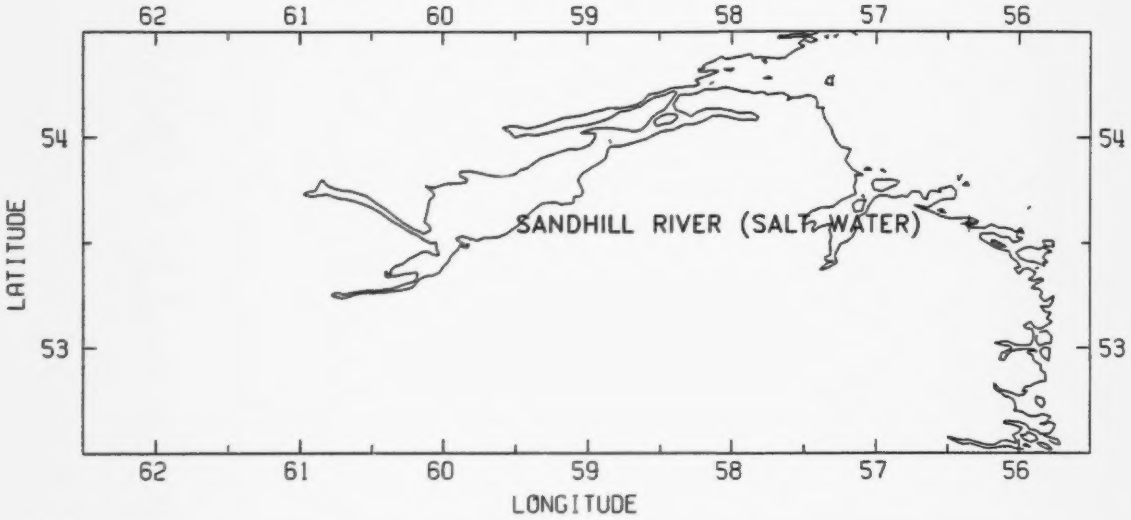
Start: 22-JUL-2002 End: 19-SEP-2002 Inst. S/N:7409

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (SALT WATER) (277) 2002

STATION NAME:	SANDHILL RIVER (SALT WATER)
STATION NUMBER:	277
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002180
LATITUDE:	53.59° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-JUN-2002 17:00 GMT
RECOVERY DATE/TIME:	08-SEP-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	5.00	180	12.50	181	8.34	2.47	24.3	12.3	55
JUL-2002	4.10	182	16.70	209	10.43	2.08	323.3	199.3	744
AUG-2002	6.00	228	14.30	232	10.22	1.46	316.9	192.9	744
SEP-2002	7.10	250	14.70	247	10.03	1.70	79.5	47.5	182
T.PERIOD	4.10	182	16.70	209	10.23	1.85	744.0	452.0	1725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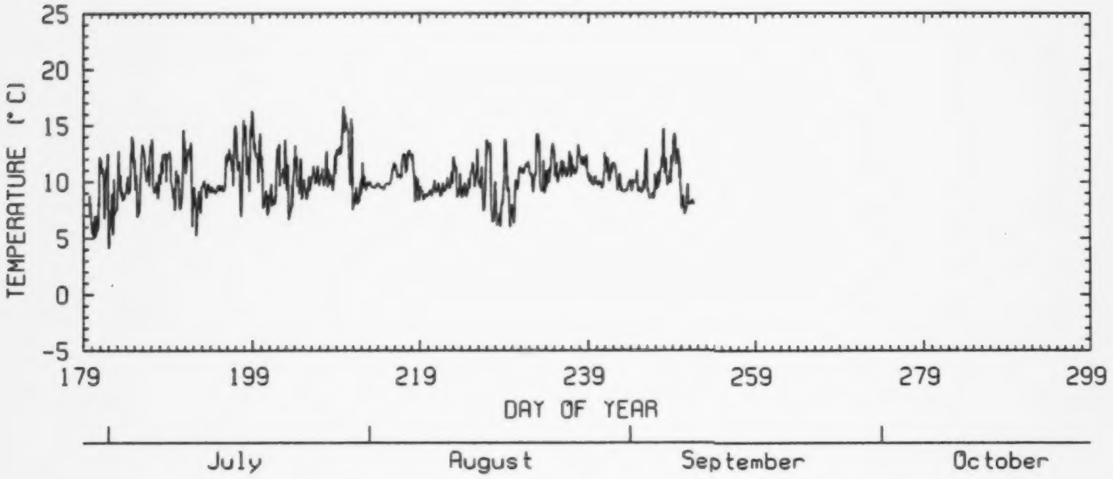
LATITUDE
LONGITUDE
SANDHILL RIVER (SALT WATER)



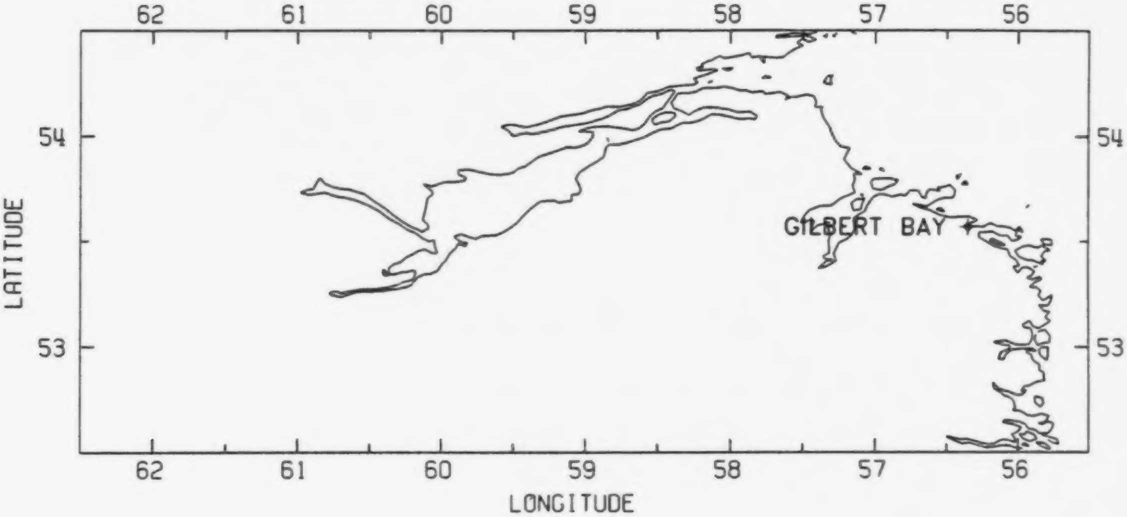
Start: 28-JUN-2002 End: 8-SEP-2002 Inst. S/N:2180

THERMOGRAPH DATA SUMMARY: GILBERT BAY (278) 2002

STATION NAME:	GILBERT BAY
STATION NUMBER:	278
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005477
LATITUDE:	53.57° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-JUL-2002 17:00 GMT
RECOVERY DATE/TIME:	13-NOV-2002 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	6.10	204	12.10	210	9.37	1.19	186.3	106.3	463
AUG-2002	6.45	216	14.15	230	9.60	1.29	297.7	173.7	744
SEP-2002	5.40	259	13.20	248	8.10	1.64	243.0	123.0	720
OCT-2002	2.20	300	6.40	275	3.68	0.94	114.0	7.4	744
NOV-2002	-0.10	314	2.60	305	1.34	0.64	17.3	0.0	308
T.PERIOD	-0.10	314	14.15	230	6.87	3.24	858.3	410.3	2979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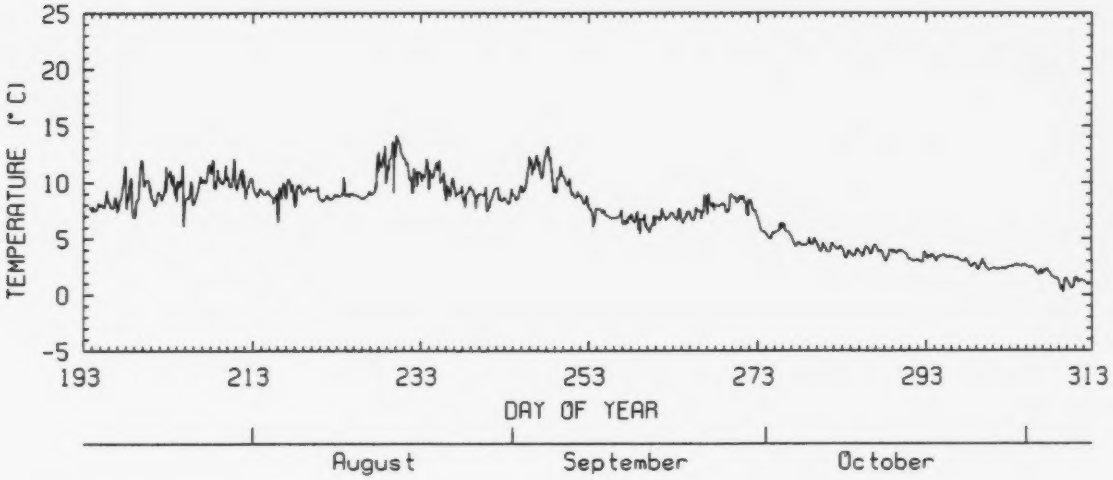
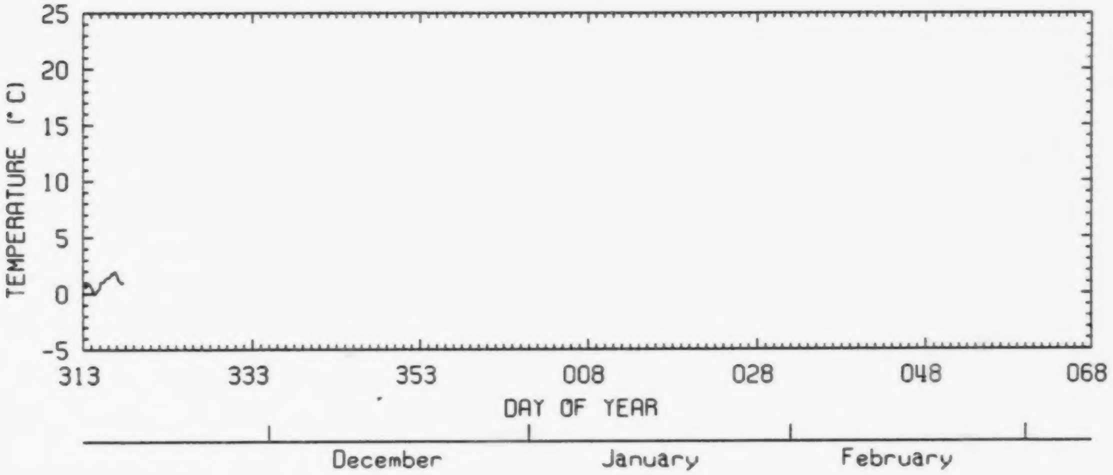
LATITUDE
LONGITUDE
GILBERT BAY





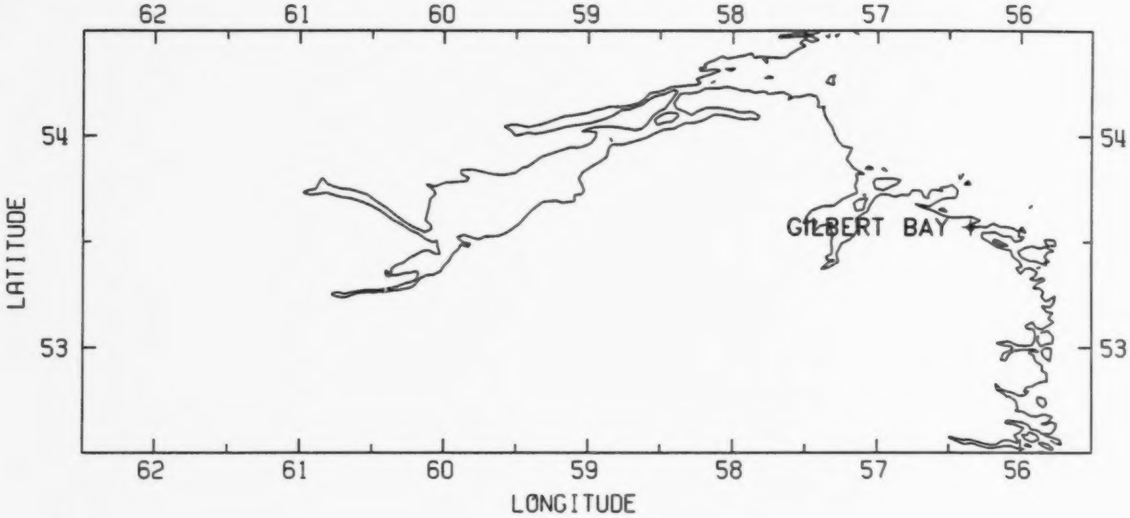
Start:12-JUL-2002 End:13-NOV-2002 Inst. S/N:5477

THERMOGRAPH DATA SUMMARY: GILBERT BAY (278) 2002

STATION NAME:	GILBERT BAY
STATION NUMBER:	278
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007400
LATITUDE:	53.57° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2002 12:00 GMT
RECOVERY DATE/TIME:	10-NOV-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	-0.60	162	5.20	180	1.59	1.45	31.6	0.2	468
JUL-2002	3.40	182	10.20	211	6.57	1.90	203.5	79.6	744
AUG-2002	8.40	213	11.40	235	9.92	0.50	307.5	183.5	744
SEP-2002	7.50	273	10.80	245	9.25	0.66	277.4	157.4	720
OCT-2002	4.30	303	7.80	274	5.78	0.98	179.1	55.1	744
NOV-2002	2.90	314	4.60	305	3.83	0.47	38.2	1.3	233
T.PERIOD	-0.60	162	11.40	235	6.81	2.96	1037.4	477.2	3653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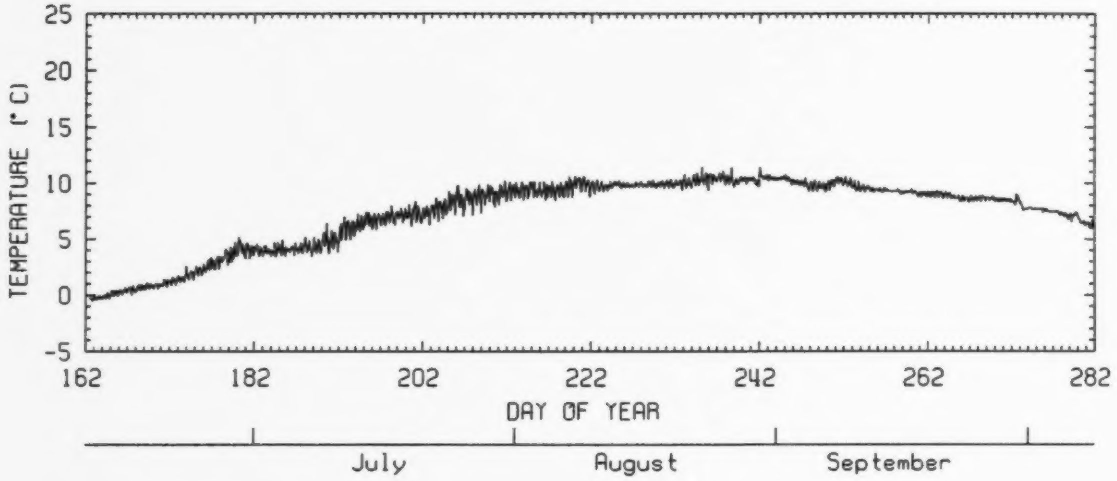
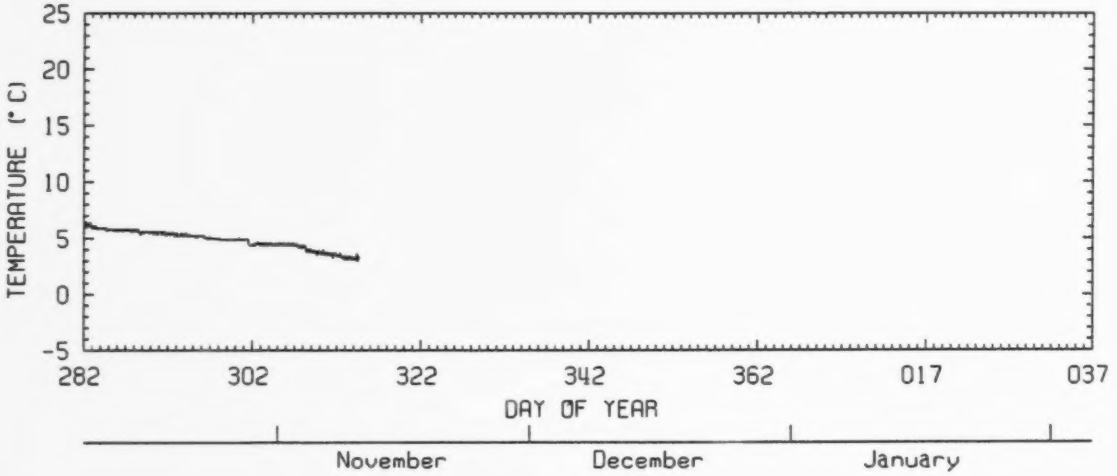
LATITUDE
LONGITUDE
GILBERT BAY





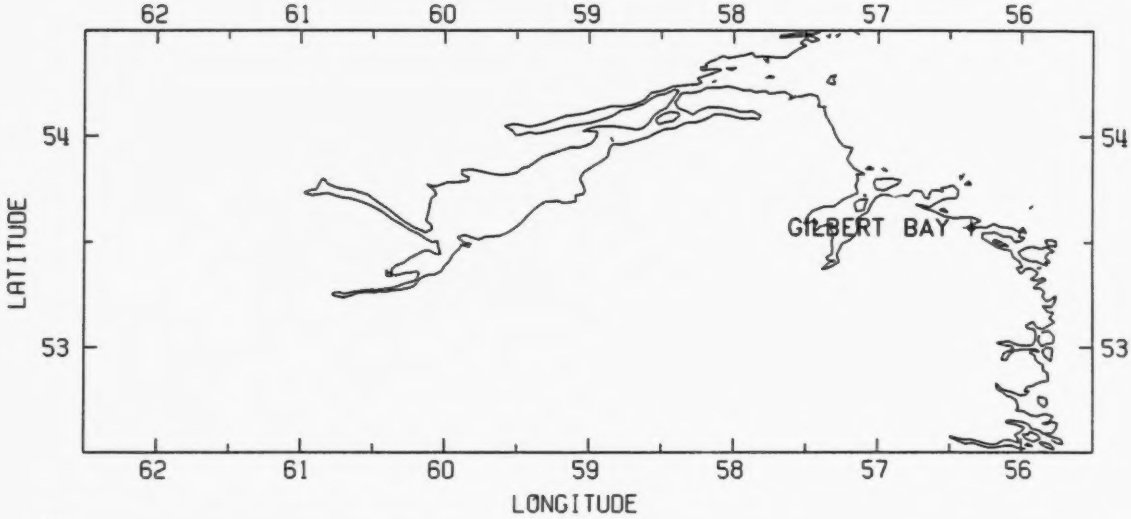
Start: 11-JUN-2002 End: 10-NOV-2002 Inst. S/N: 7400

THERMOGRAPH DATA SUMMARY: GILBERT BAY (278) 2002

STATION NAME:	GILBERT BAY
STATION NUMBER:	278
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007406
LATITUDE:	53.57° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2002 12:00 GMT
RECOVERY DATE/TIME:	10-NOV-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	3.70	163	12.90	181	7.64	1.85	151.7	71.7	468
JUL-2002	8.40	192	17.20	210	12.17	1.53	377.4	253.4	744
AUG-2002	10.10	224	17.50	229	12.73	1.15	394.8	270.7	744
SEP-2002	7.50	273	15.70	247	10.66	1.53	319.9	199.9	720
OCT-2002	3.50	304	8.40	275	5.71	1.10	177.0	53.2	744
NOV-2002	1.30	314	4.00	305	2.87	0.68	28.4	0.0	233
T.PERIOD	1.30	314	17.50	229	9.50	3.46	1449.1	848.9	3653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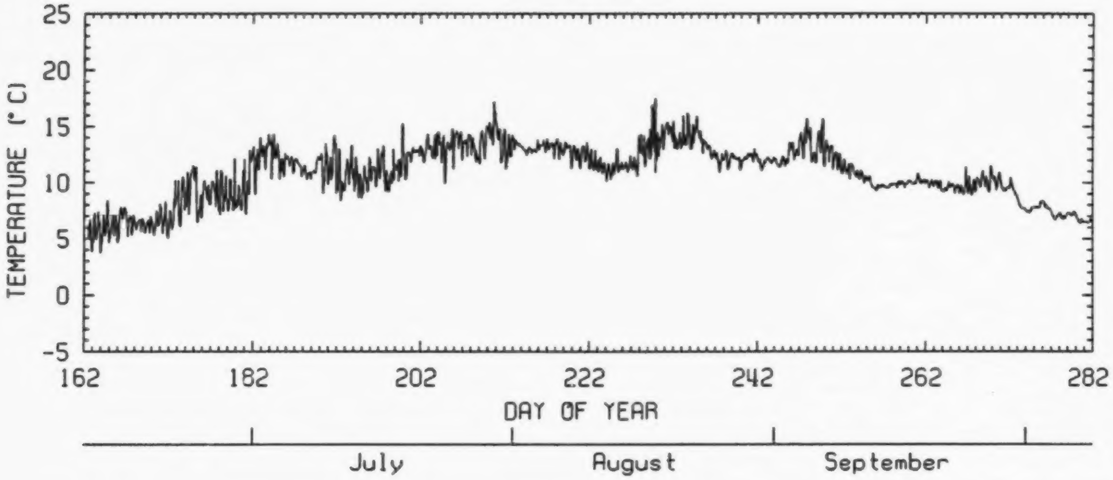
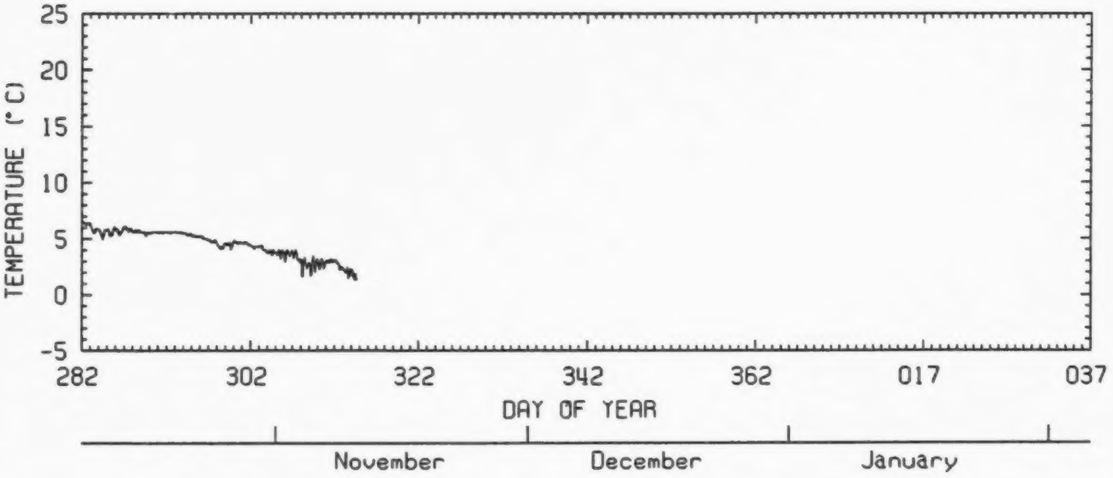
LATITUDE
LONGITUDE
GILBERT BAY





Start:11-JUN-2002 End:10-NOV-2002 Inst. S/N:7406

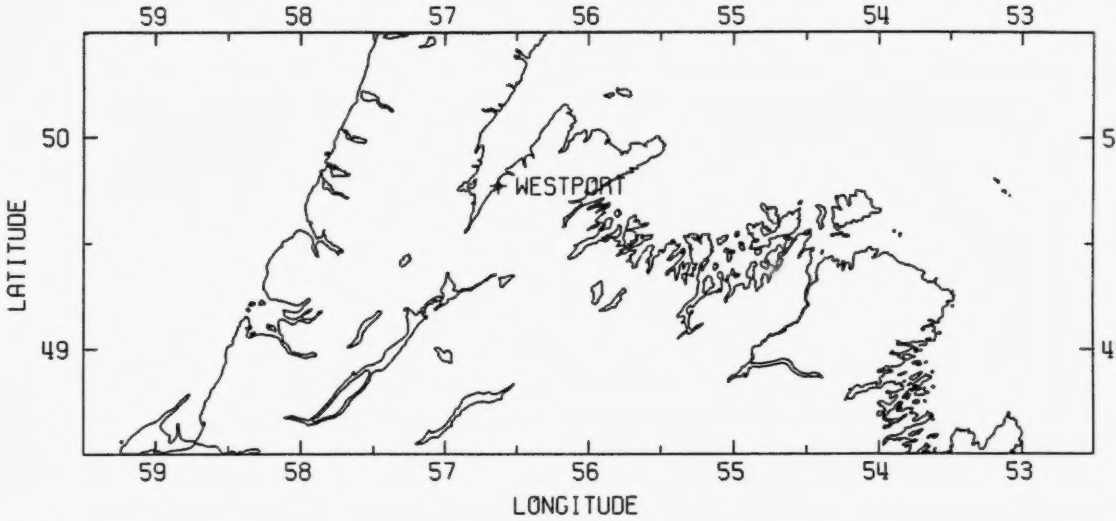
Appendix 5. Time Series Plots and Monthly Statistics from Unit Area 3Kd

THERMOGRAPH DATA SUMMARY: WESTPORT (105) 2002

STATION NAME:	WESTPORT
STATION NUMBER:	105
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007946
LATITUDE:	49.77° N
LONGITUDE:	56.63° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-MAY-2002 19:00 GMT
RECOVERY DATE/TIME:	28-OCT-2002 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	0.05	150	5.80	150	2.44	1.39	20.1	0.0	173
JUN-2002	-0.50	155	8.40	179	4.48	2.09	134.5	33.7	720
JUL-2002	2.50	185	13.30	208	8.62	2.37	267.3	143.4	744
AUG-2002	5.05	230	17.05	229	12.27	2.56	380.4	256.5	744
SEP-2002	4.90	247	13.10	248	9.97	1.69	299.1	179.1	720
OCT-2002	3.20	281	9.75	275	5.13	1.48	143.3	31.7	669
T.PERIOD	-0.50	155	17.05	229	7.91	3.73	1244.7	644.3	3770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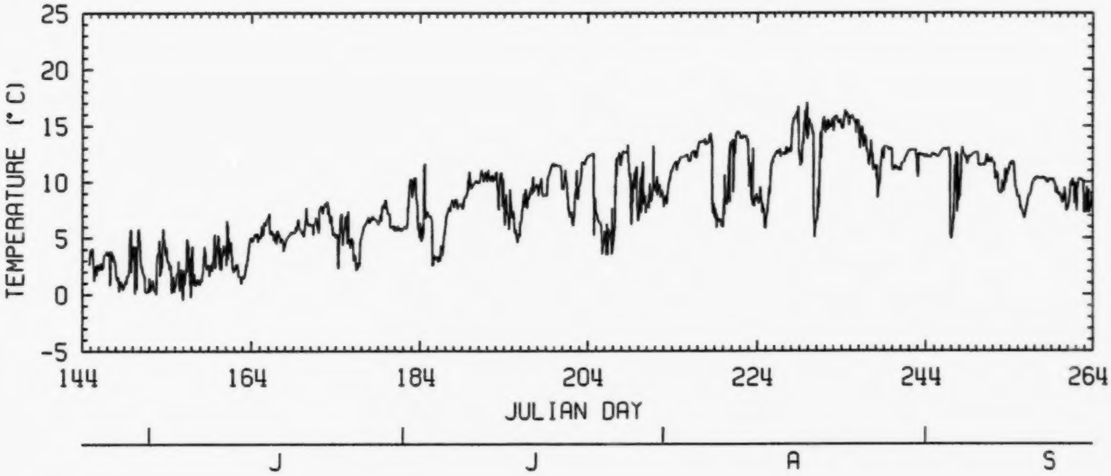
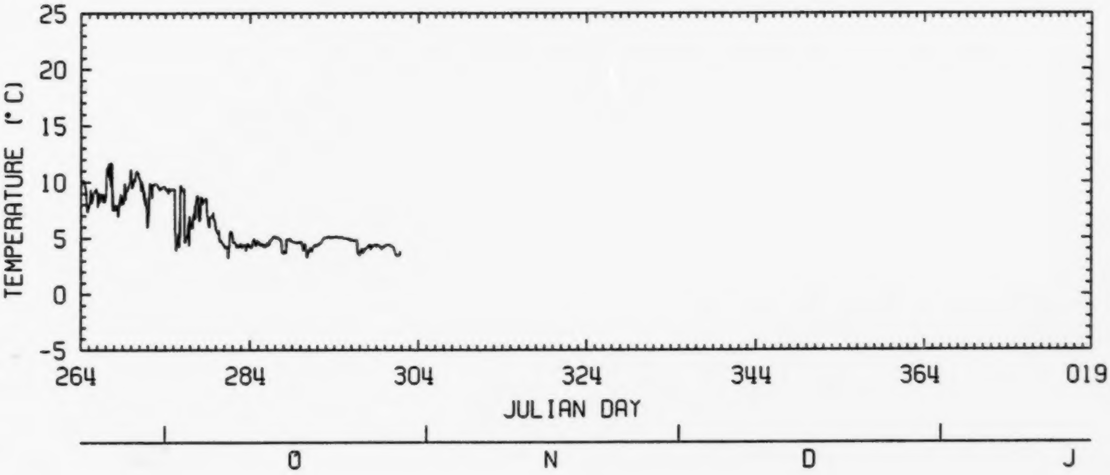
LATITUDE
WESTPORT
LONGITUDE





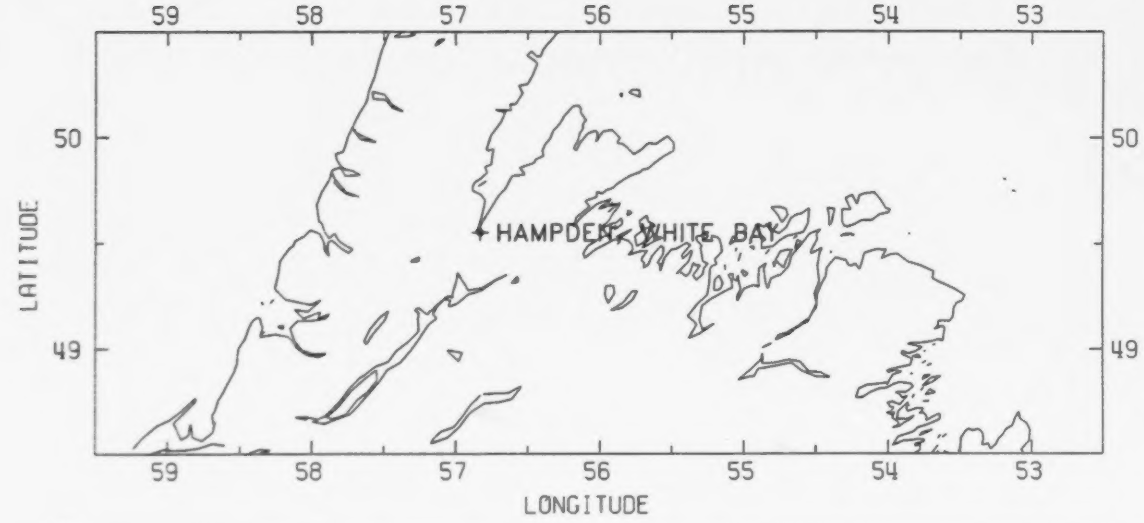
Start:24-MAY-2002 End:28-OCT-2002 Inst. S/N:7946

THERMOGRAPH DATA SUMMARY: HAMPDEN, WHITE BAY (179) 2002

STATION NAME:	HAMPDEN, WHITE BAY
STATION NUMBER:	179
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003810
LATITUDE:	49.55° N
LONGITUDE:	56.83° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-JUN-2002 16:00 GMT
RECOVERY DATE/TIME:	21-NOV-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	4.60	181	7.30	180	6.02	0.42	30.2	10.2	104
JUL-2002	1.50	205	12.40	198	6.61	2.63	204.8	86.5	744
AUG-2002	4.50	230	14.00	226	10.29	2.15	319.0	195.0	744
SEP-2002	3.20	246	12.70	248	8.66	2.07	259.7	139.7	720
OCT-2002	1.70	279	8.00	274	3.80	0.93	117.7	5.4	744
NOV-2002	1.90	323	3.90	305	3.38	0.46	70.8	0.0	497
T.PERIOD	1.50	205	14.00	226	6.74	3.21	1002.3	436.8	3553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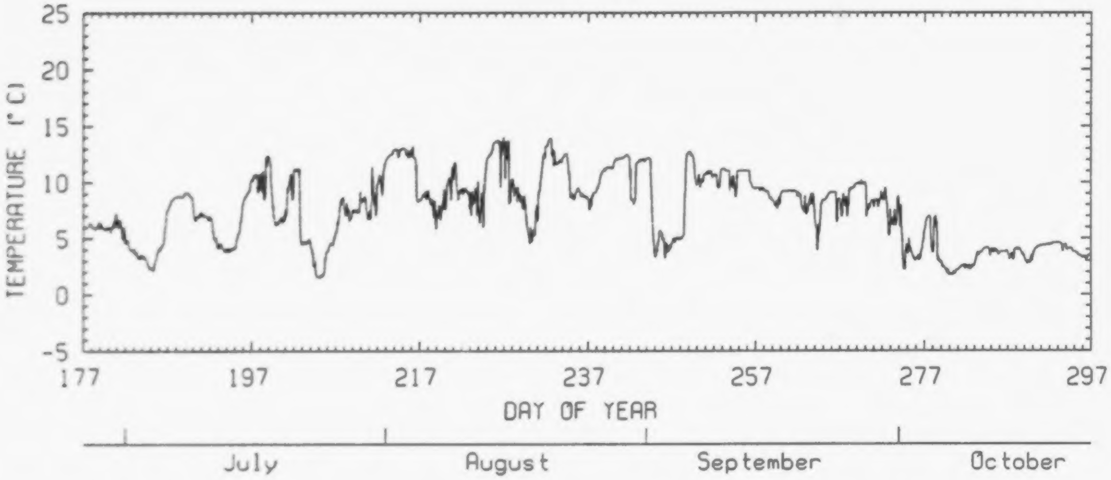
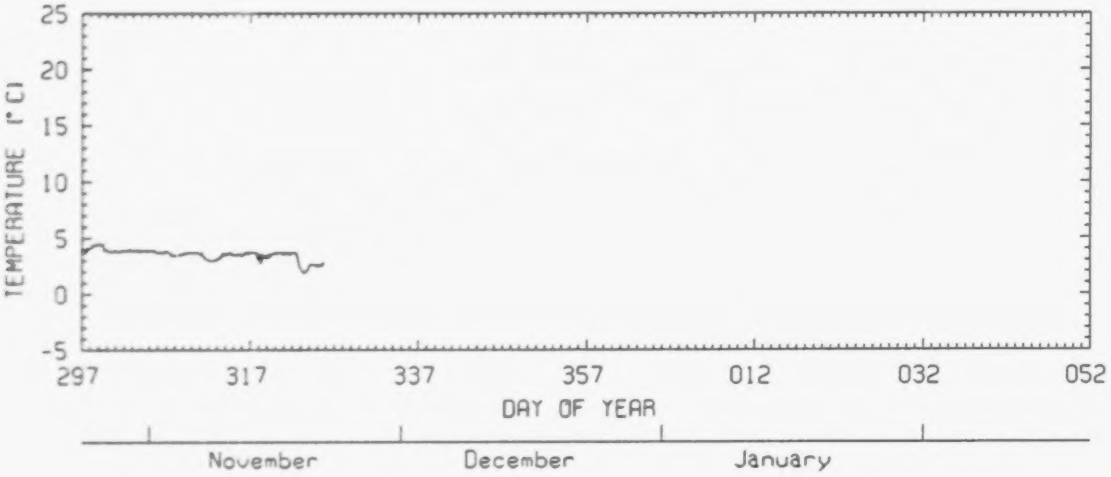
LATITUDE
HAMPDEN, WHITE BAY
LONGITUDE





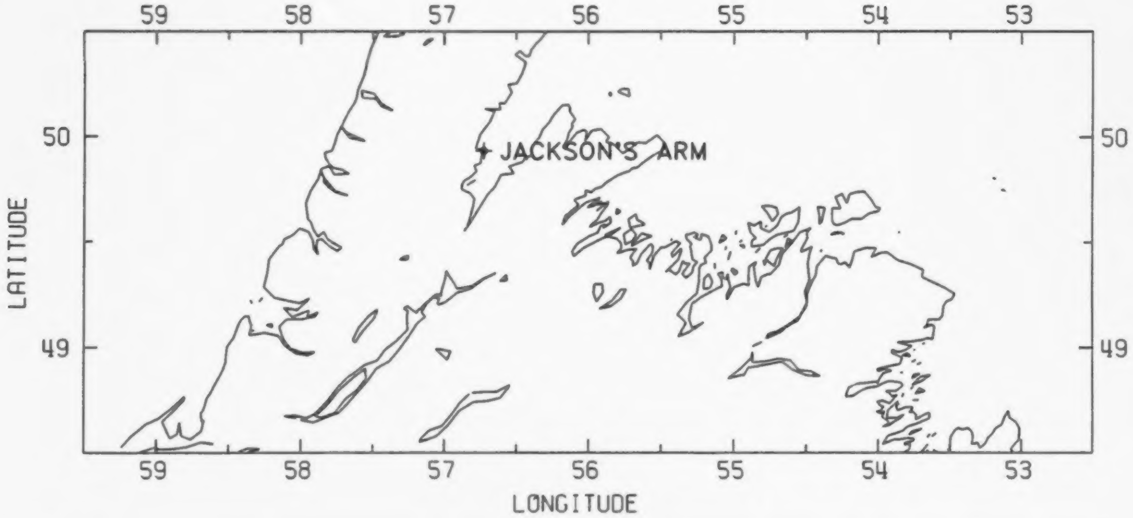
Start:26-JUN-2002 End:21-NOV-2002 Inst. S/N:3810

THERMOGRAPH DATA SUMMARY: JACKSON'S ARM (258) 2002

STATION NAME:	JACKSON'S ARM
STATION NUMBER:	258
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005475
LATITUDE:	49.93° N
LONGITUDE:	56.73° W
INSTRUMENT DEPTH:	22 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	18-JUN-2002 09:00 GMT
RECOVERY DATE/TIME:	25-OCT-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	5.10	175	8.65	181	7.00	0.79	90.7	38.7	303
JUL-2002	4.60	209	12.65	211	9.32	1.95	289.0	165.0	744
AUG-2002	7.05	233	15.80	234	12.07	1.94	374.1	250.1	744
SEP-2002	4.50	245	13.30	249	9.90	1.99	296.9	176.9	720
OCT-2002	3.55	296	8.30	276	6.40	1.08	159.0	59.0	590
T.PERIOD	3.55	296	15.80	234	9.33	2.66	1209.8	689.8	3101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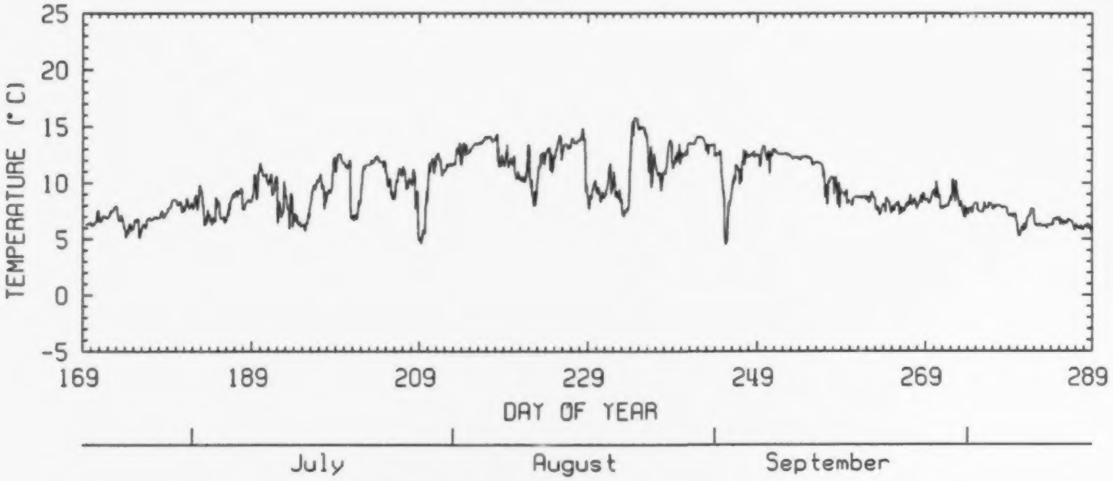
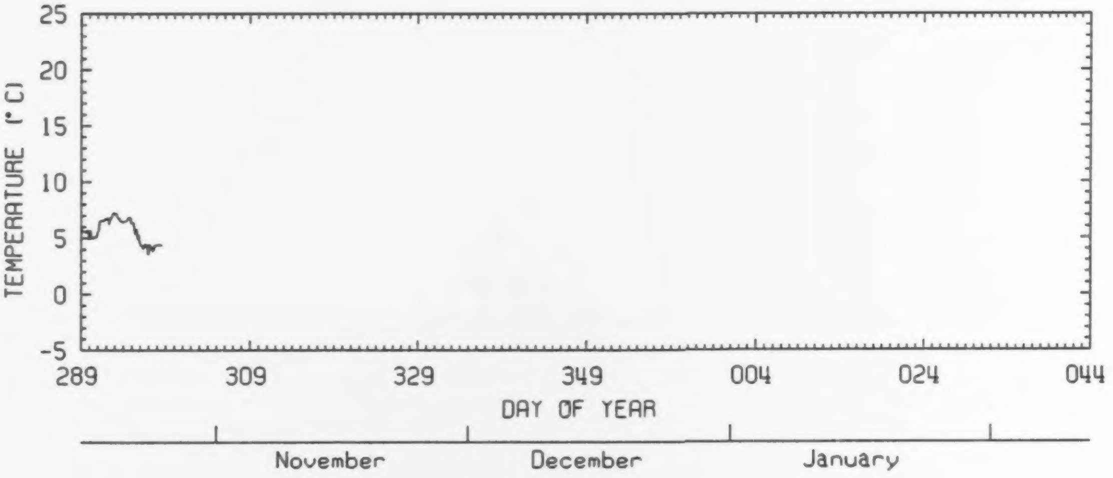
LATITUDE
LONGITUDE
JACKSON'S ARM





Start: 18-JUN-2002 End: 25-OCT-2002 Inst. S/N: 5475

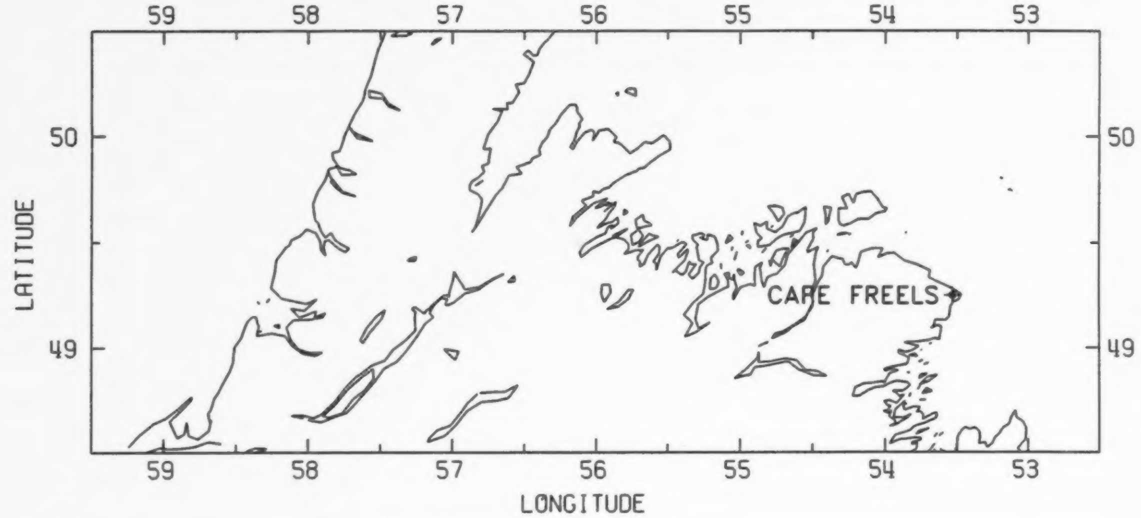
Appendix 6. Time Series Plots and Monthly Statistics from Unit Area 3Ki

THERMOGRAPH DATA SUMMARY: CAPE FREELS (114) 2002

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	004333
LATITUDE:	49.25° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-MAY-2002 22:00 GMT
RECOVERY DATE/TIME:	29-OCT-2002 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	2.60	148	4.80	151	3.96	0.61	14.6	0.7	74
JUN-2002	1.85	154	8.25	180	5.85	1.53	175.6	59.4	720
JUL-2002	3.65	189	13.35	194	8.89	2.59	275.5	151.5	744
AUG-2002	4.60	238	16.25	233	12.09	1.95	374.9	250.9	744
SEP-2002	4.40	255	12.90	246	10.46	1.45	313.7	193.7	720
OCT-2002	0.80	301	9.95	274	7.15	1.76	206.6	93.8	692
T.PERIOD	0.80	301	16.25	233	8.82	2.99	1360.8	749.8	3694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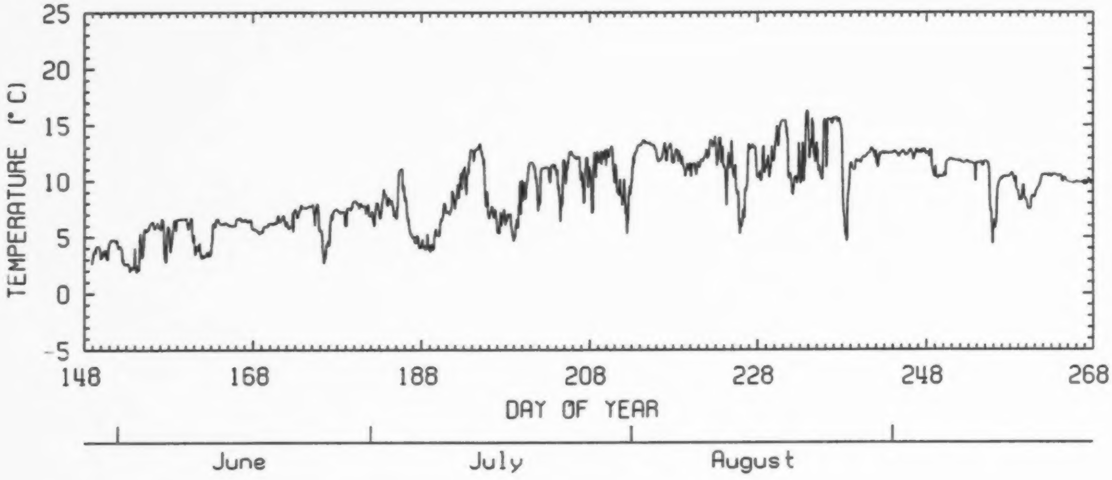
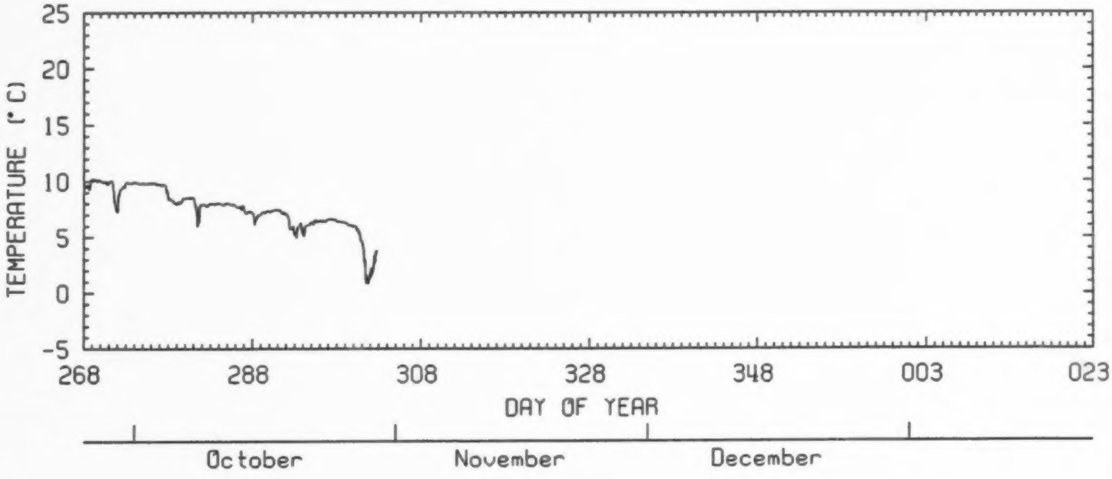
LATITUDE
LONGITUDE
CAPE FREELS





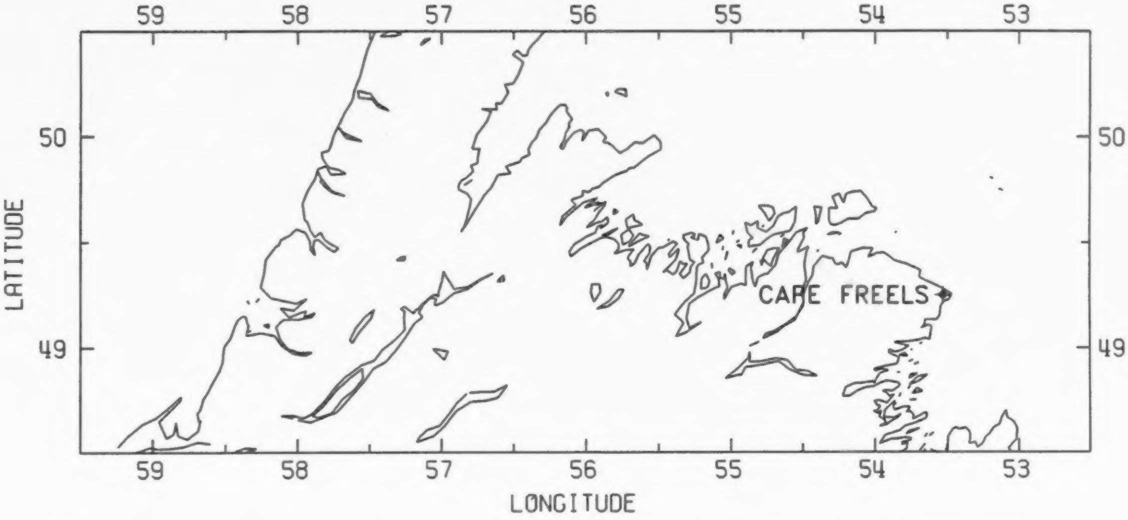
Start:28-MAY-2002 End:29-OCT-2002 Inst. S/N:4333

THERMOGRAPH DATA SUMMARY: CAPE FREELS (114) 2002

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005456
LATITUDE:	49.25° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-MAY-2002 22:00 GMT
RECOVERY DATE/TIME:	29-OCT-2002 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	3.75	148	5.25	150	4.47	0.34	17.2	1.5	74
JUN-2002	3.00	154	8.55	181	6.63	0.98	199.0	79.0	720
JUL-2002	5.10	188	14.00	210	10.94	2.19	339.2	215.2	744
AUG-2002	7.10	238	16.90	234	13.76	1.55	426.4	302.4	744
SEP-2002	6.40	256	13.30	247	10.90	1.27	327.1	207.1	720
OCT-2002	2.65	301	10.30	275	7.41	1.52	214.4	99.1	692
T.PERIOD	2.65	301	16.90	234	9.87	3.10	1523.4	904.3	3694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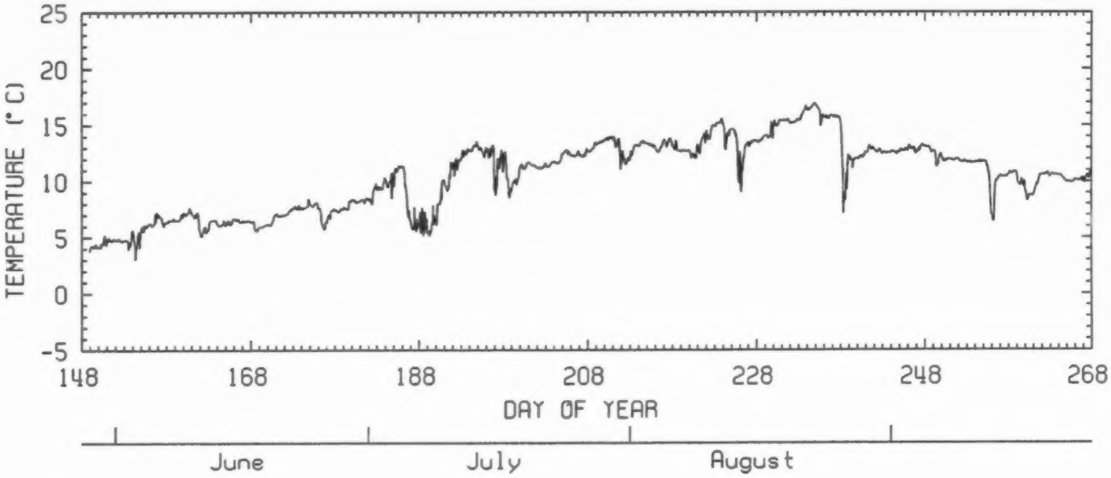
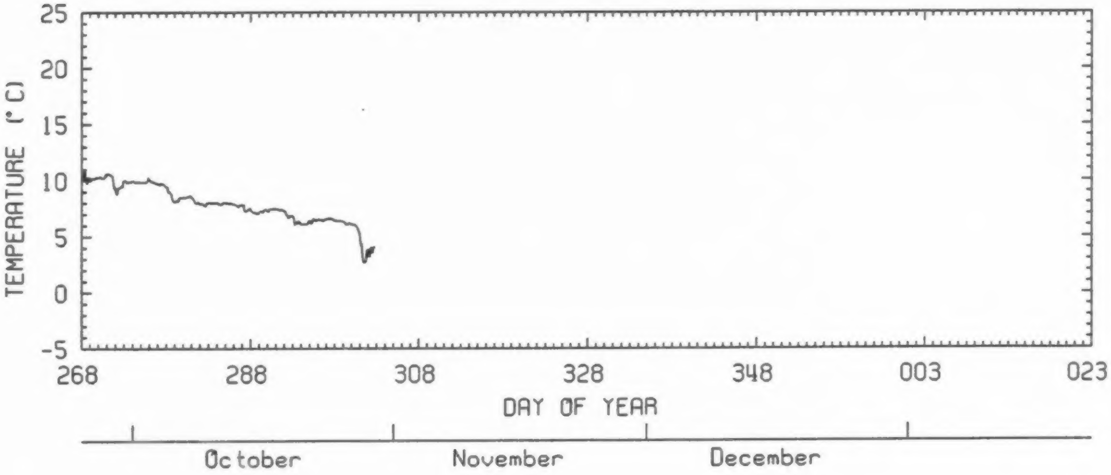
LATITUDE
CAPE FREELS
LONGITUDE





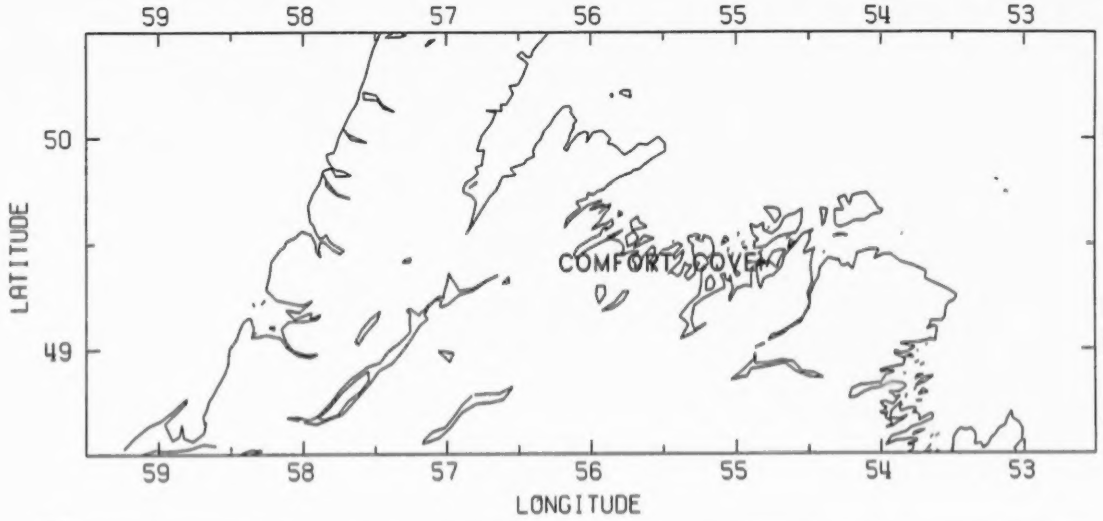
Start:28-MAY-2002 End:29-OCT-2002 Inst. S/N:5456

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2002

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007937
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-NOV-2001 15:00 GMT
RECOVERY DATE/TIME:	14-MAY-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	3.10	333	7.65	312	5.01	1.08	121.3	26.6	561
DEC-2001	1.15	365	3.35	336	2.03	0.60	63.1	0.0	744
JAN-2002	-1.70	28	1.35	1	-0.58	0.73	2.2	0.0	744
FEB-2002	-1.60	32	-0.45	56	-1.25	0.34	0.0	0.0	672
MAR-2002	-1.30	81	-0.50	71	-0.94	0.18	0.0	0.0	744
APR-2002	-0.85	91	1.15	118	-0.21	0.59	4.6	0.0	720
MAY-2002	-0.75	124	3.70	133	1.35	0.85	18.7	0.0	325
T.PERIOD	-1.70	28	7.65	312	0.59	2.11	209.9	26.6	4510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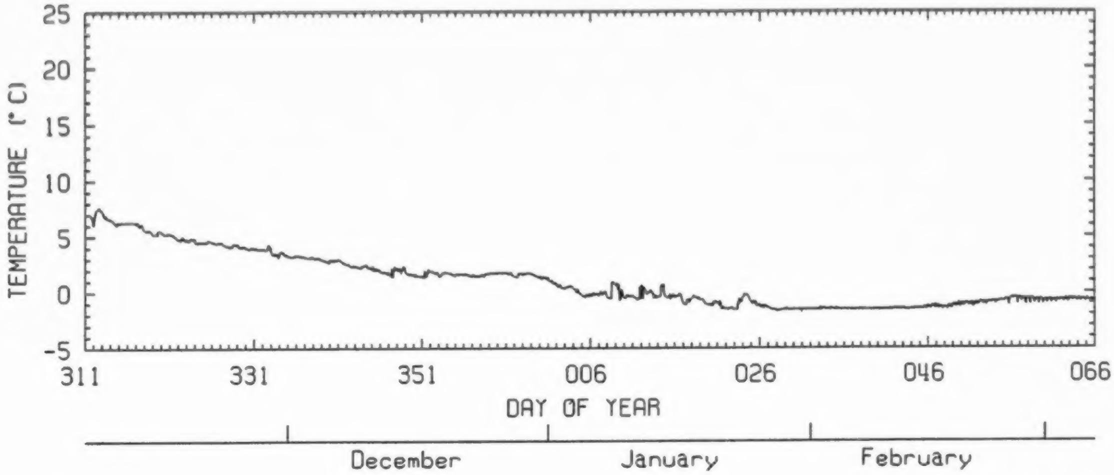
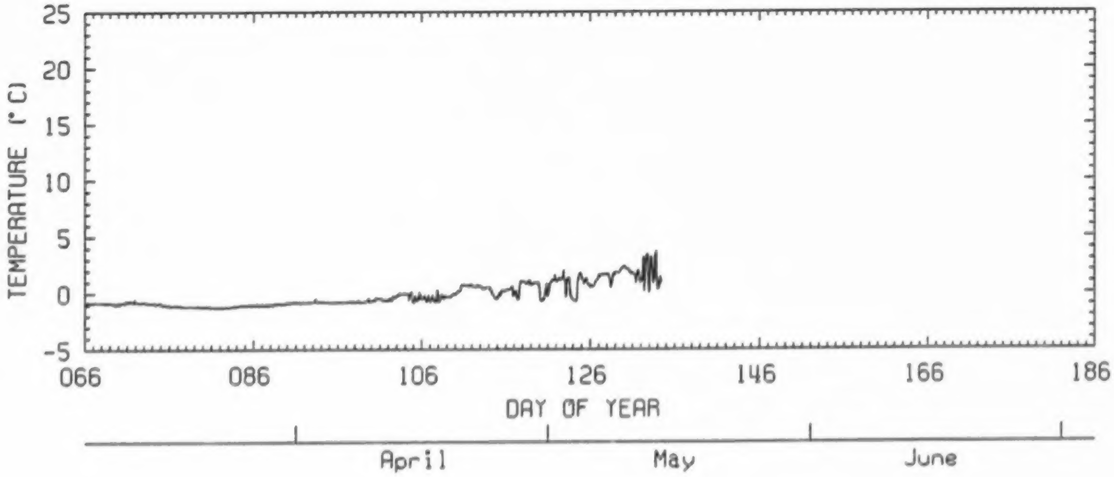
LATITUDE
COMFORT COVE
LONGITUDE





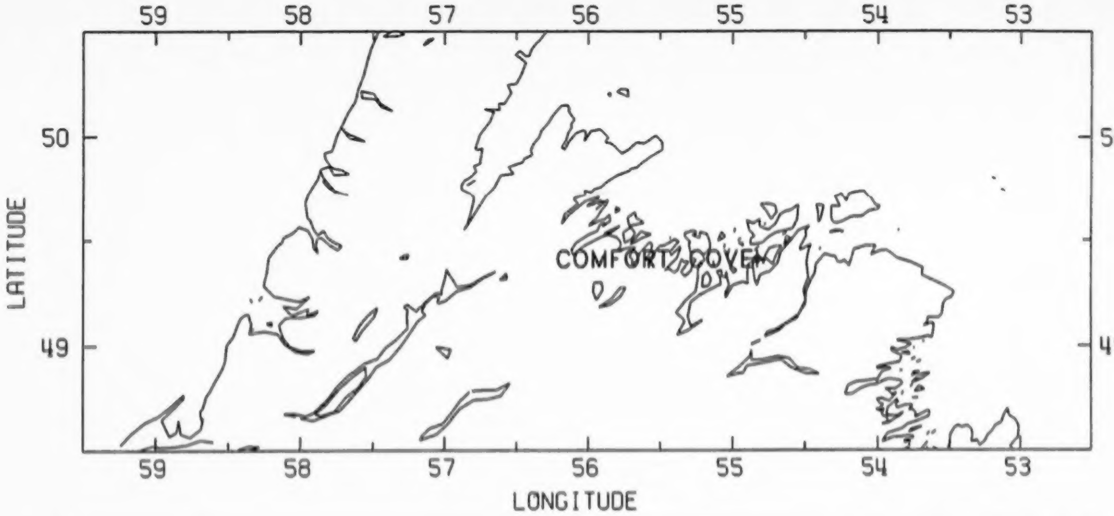
Start: 7-NOV-2001 End: 14-MAY-2002 Inst. S/N: 7937

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2002

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007943
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-MAY-2002 14:00 GMT
RECOVERY DATE/TIME:	24-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	-0.35	137	8.15	150	2.93	2.31	51.7	5.4	418
JUN-2002	1.30	162	11.15	173	6.52	2.17	195.6	75.7	720
JUL-2002	4.35	185	16.40	212	10.21	3.29	316.6	192.6	744
AUG-2002	7.10	213	19.25	235	13.16	2.70	408.1	284.1	744
SEP-2002	9.70	255	15.95	250	13.39	1.28	321.1	225.1	565
T.PERIOD	-0.35	137	19.25	235	9.68	4.45	1293.0	782.8	3191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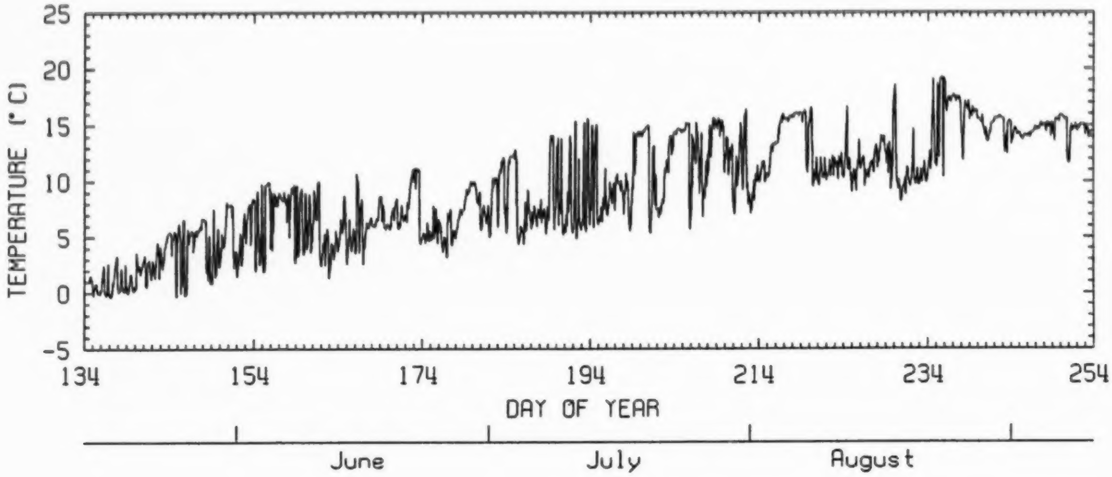
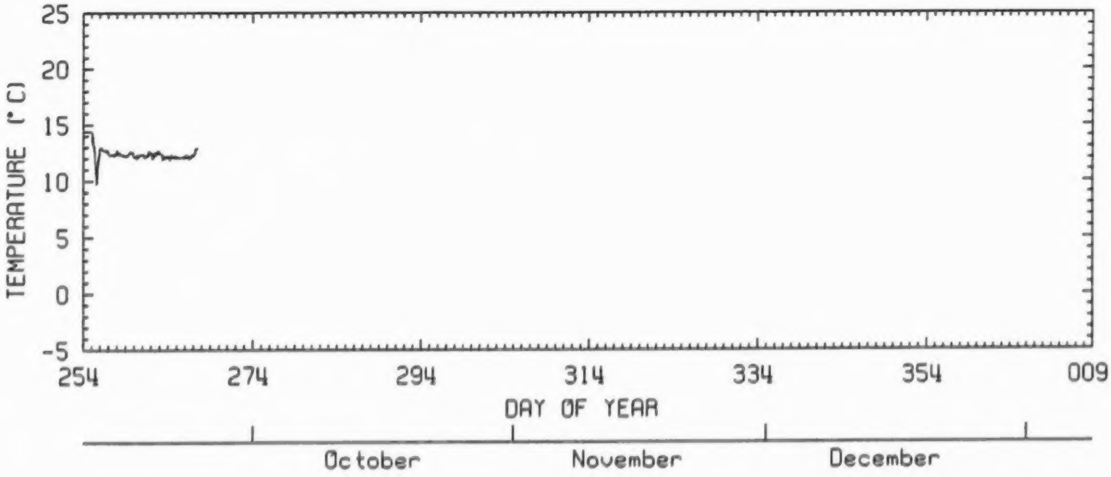
LATITUDE
COMFORT COVE
LONGITUDE





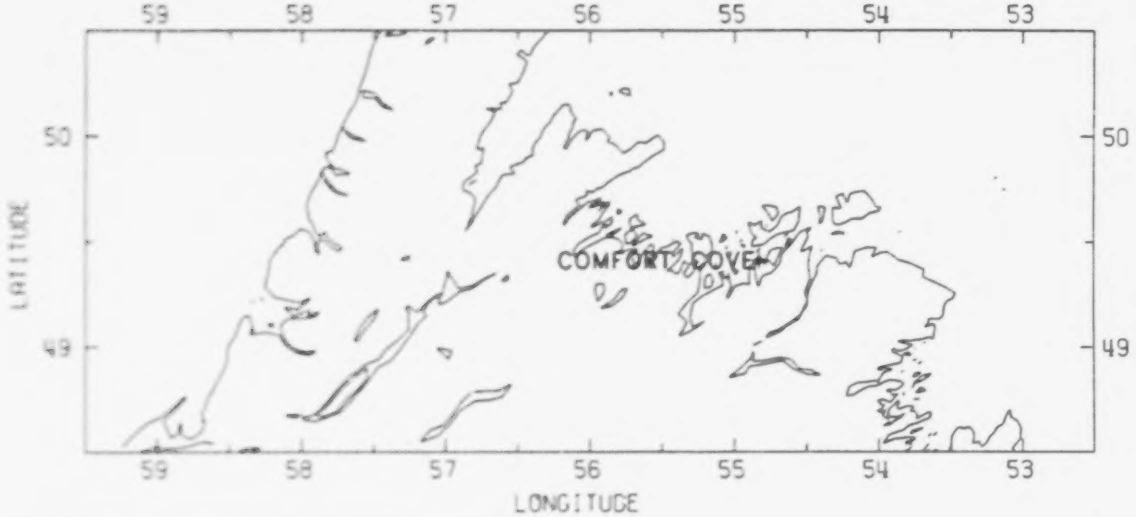
Start: 14-MAY-2002 End: 24-SEP-2002 Inst. S/N: 7943

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2002

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007937
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-SEP-2002 23:00 GMT
RECOVERY DATE/TIME:	21-NOV-2002 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2002	9.50	269	12.60	271	11.81	0.66	70.0	46.0	121
OCT-2002	6.45	304	11.25	276	9.05	1.30	280.6	156.6	744
NOV-2002	3.15	323	6.65	305	4.73	0.89	98.8	16.5	495
T.PERIOD	3.15	323	12.60	271	7.72	2.64	449.3	219.1	1360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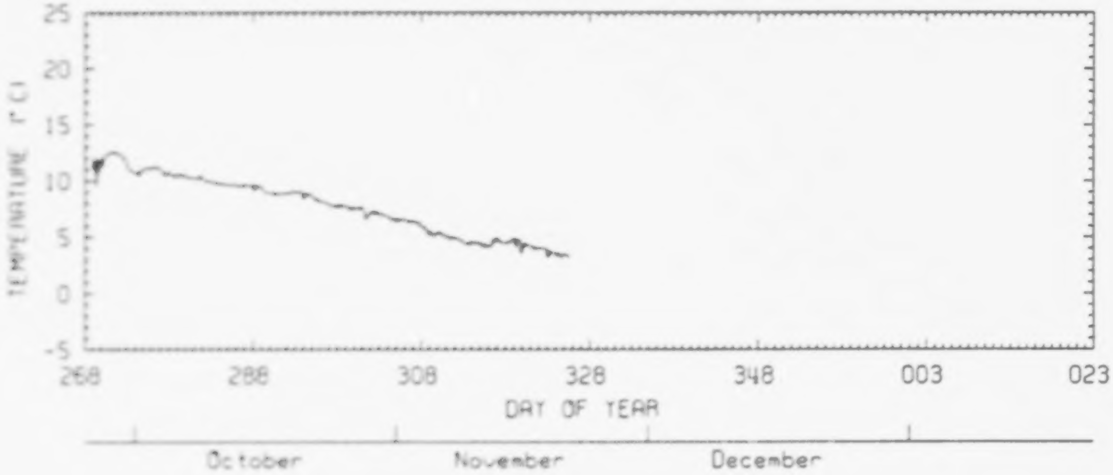
LATITUDE
COMFORT COVE
LONGITUDE



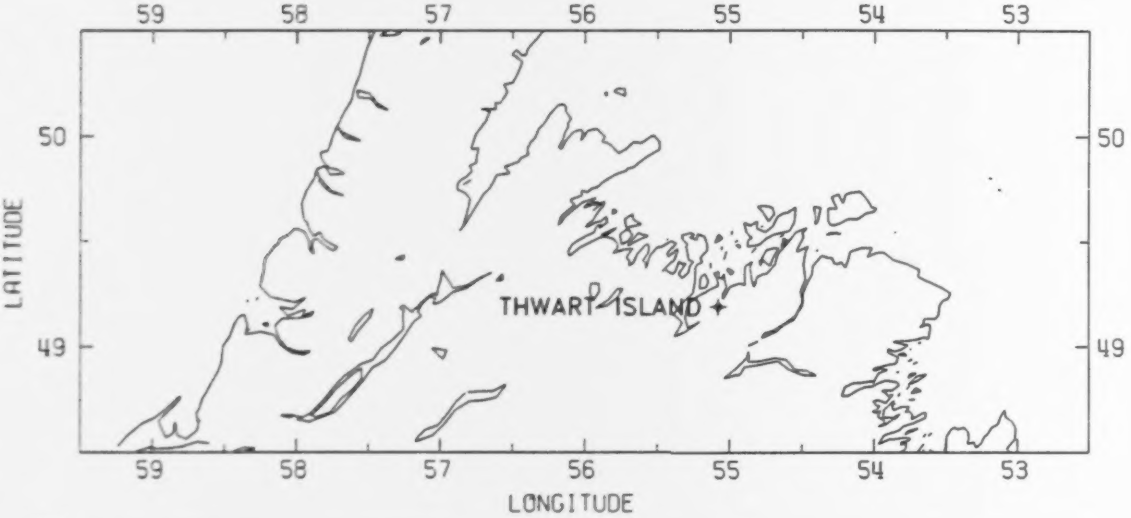
Start: 25-SEP-2002 End: 21-NOV-2002 Inst. S/N:7937

THERMOGRAPH DATA SUMMARY: THWART ISLAND (267) 2002

STATION NAME:	THWART ISLAND
STATION NUMBER:	267
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006436
LATITUDE:	49.19° N
LONGITUDE:	55.08° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	15-OCT-2001 16:00 GMT
RECOVERY DATE/TIME:	13-MAY-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-2001	7.40	304	11.10	289	9.19	0.80	156.9	88.9	392
NOV-2001	2.90	333	8.40	305	5.83	1.51	174.9	56.1	720
DEC-2001	1.30	352	4.30	336	2.47	0.63	76.7	0.0	744
JAN-2002	-1.50	16	2.20	1	-0.36	0.80	5.7	0.0	744
FEB-2002	-1.20	32	-0.10	59	-0.75	0.25	0.0	0.0	672
MAR-2002	-1.00	80	1.10	67	-0.38	0.26	0.0	0.0	744
APR-2002	-0.70	96	2.90	107	0.50	0.82	18.1	0.0	720
MAY-2002	-0.30	126	6.50	132	1.61	1.17	21.9	0.2	302
T.PERIOD	-1.50	16	11.10	289	1.87	3.14	454.2	145.2	5038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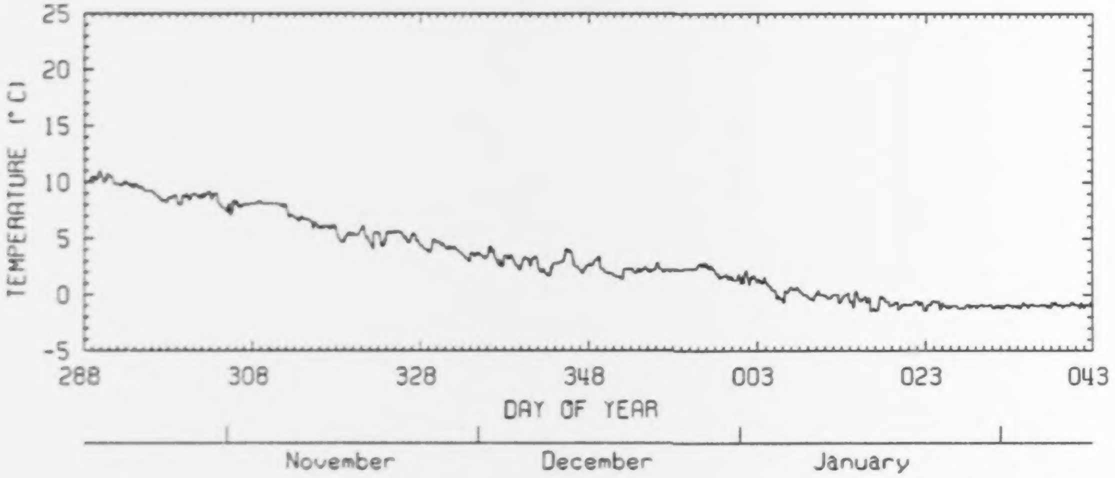
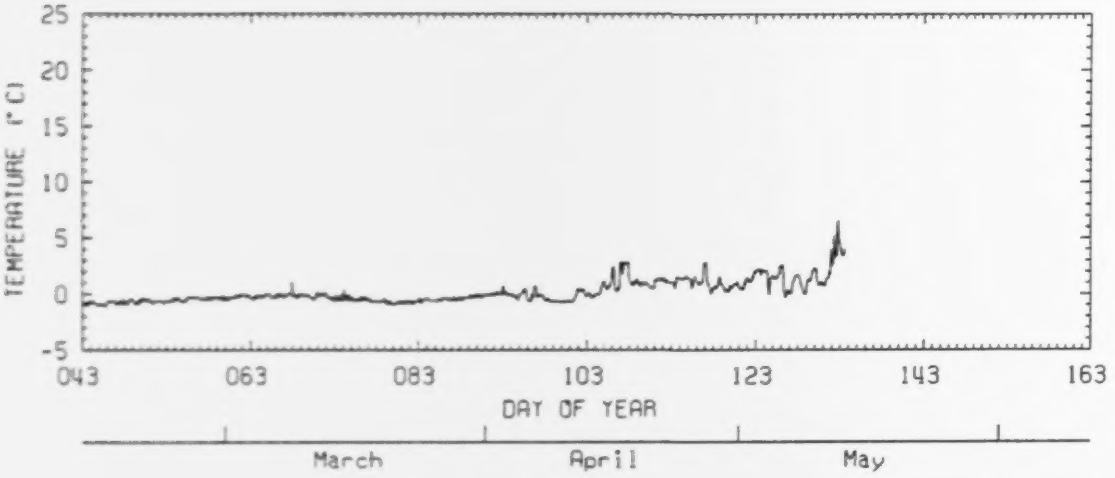
LATITUDE
THWART ISLAND
LONGITUDE





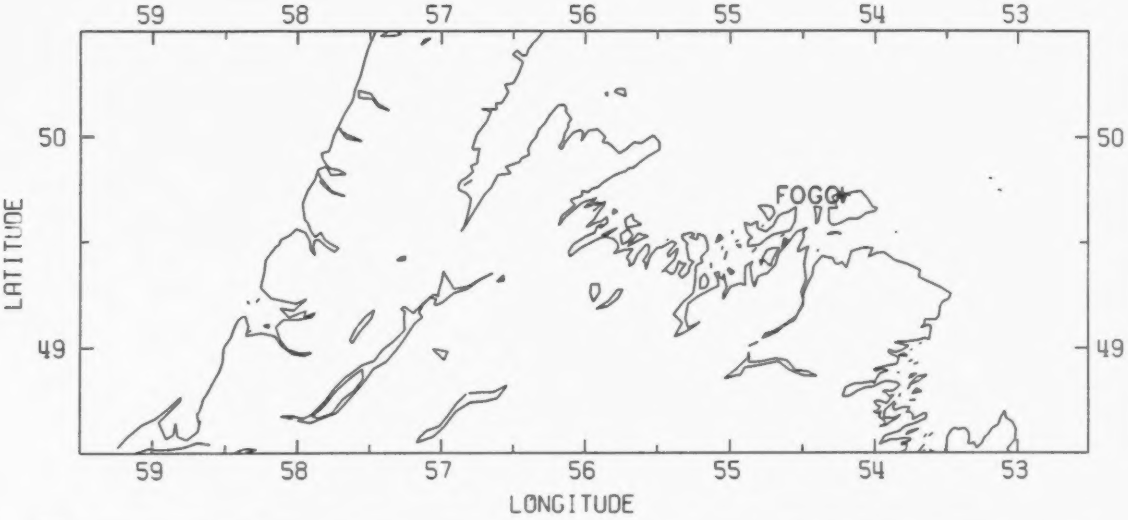
Start:15-OCT-2001 End:13-MAY-2002 Inst. S/N:6436

THERMOGRAPH DATA SUMMARY: FOGO (269) 2002

STATION NAME:	FOGO
STATION NUMBER:	269
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005458
LATITUDE:	49.72° N
LONGITUDE:	54.23° W
INSTRUMENT DEPTH:	18 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-JUN-2002 14:00 GMT
RECOVERY DATE/TIME:	21-AUG-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	0.80	170	5.90	181	3.52	1.01	41.1	1.7	274
JUL-2002	2.65	199	8.85	207	4.85	0.97	150.4	28.3	744
AUG-2002	4.15	215	9.95	218	7.27	1.19	152.7	68.7	492
T.PERIOD	0.80	170	9.95	218	5.40	1.74	344.2	98.7	1510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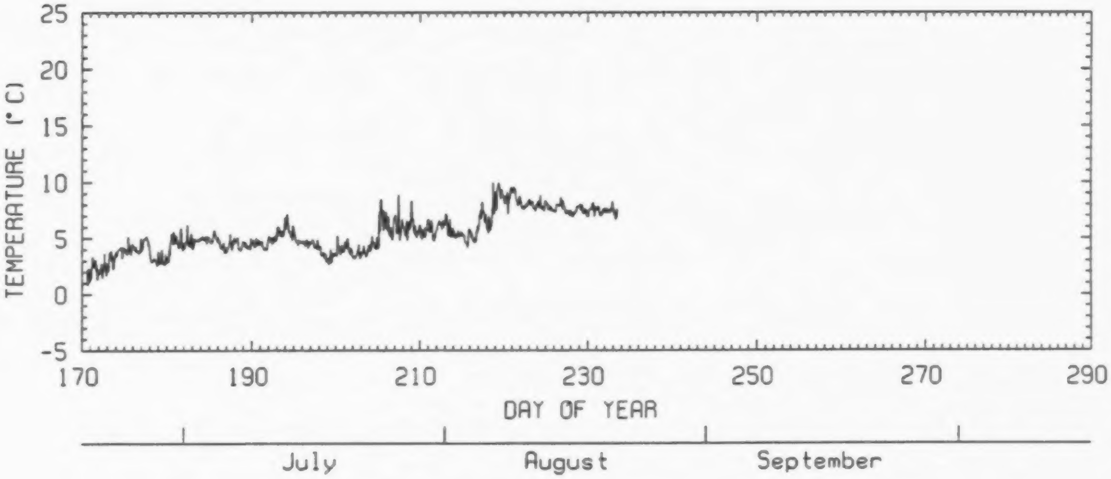
LATITUDE
FOGO
LONGITUDE



Start: 19-JUN-2002   End: 21-AUG-2002   Inst. S/N:5458

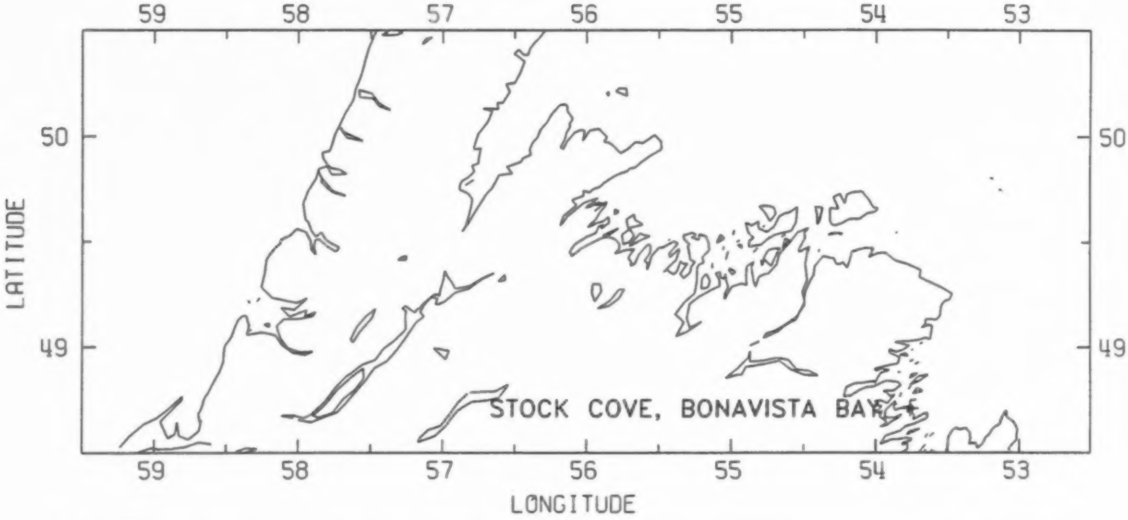
Appendix 7. Time Series Plots and Monthly Statistics from Unit Area 3La

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2002

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003287
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-NOV-2001 19:00 GMT
RECOVERY DATE/TIME:	13-MAY-2002 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	3.15	334	8.35	311	5.27	1.27	133.9	35.4	581
DEC-2001	1.85	363	4.10	336	2.80	0.51	86.7	0.0	744
JAN-2002	-1.80	31	2.00	1	-0.04	0.96	12.1	0.0	744
FEB-2002	-1.80	38	-0.25	43	-1.23	0.36	0.0	0.0	672
MAR-2002	-1.80	85	-0.70	89	-1.33	0.25	0.0	0.0	744
APR-2002	-1.65	93	0.85	108	-0.25	0.58	3.4	0.0	720
MAY-2002	-1.35	124	1.40	132	0.07	0.61	3.6	0.0	306
T.PERIOD	-1.80	31	8.35	311	0.69	2.33	239.6	35.4	4511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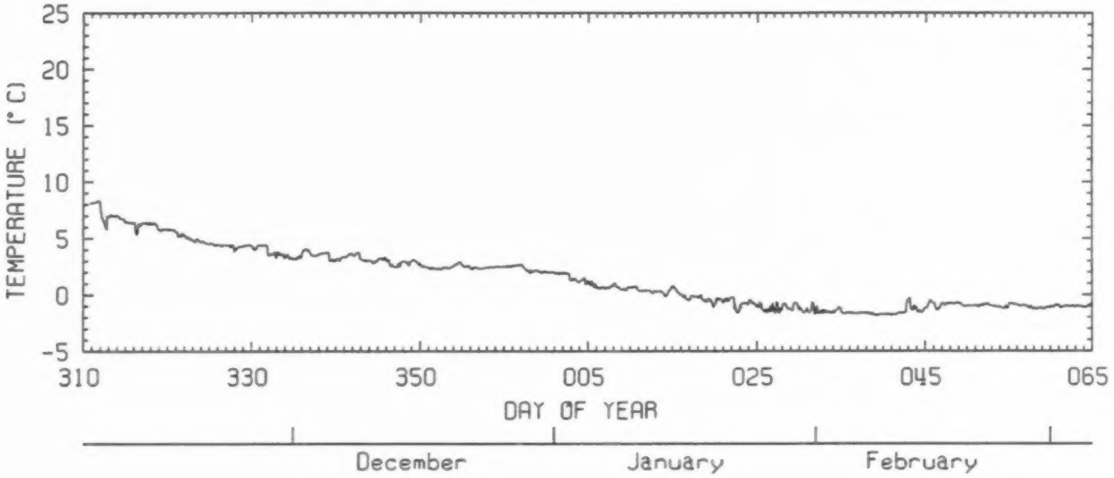
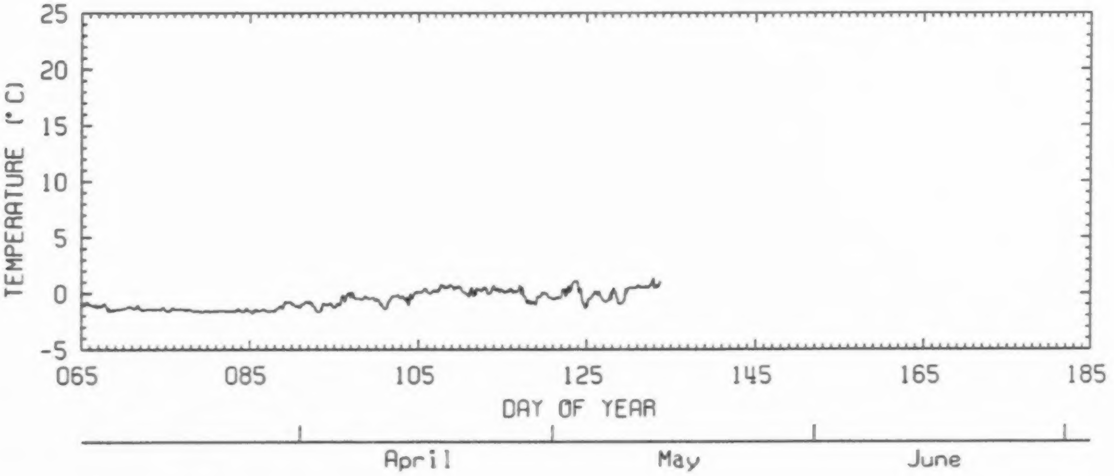
LATITUDE
STOCK COVE, BONAVISTA BAY
LONGITUDE





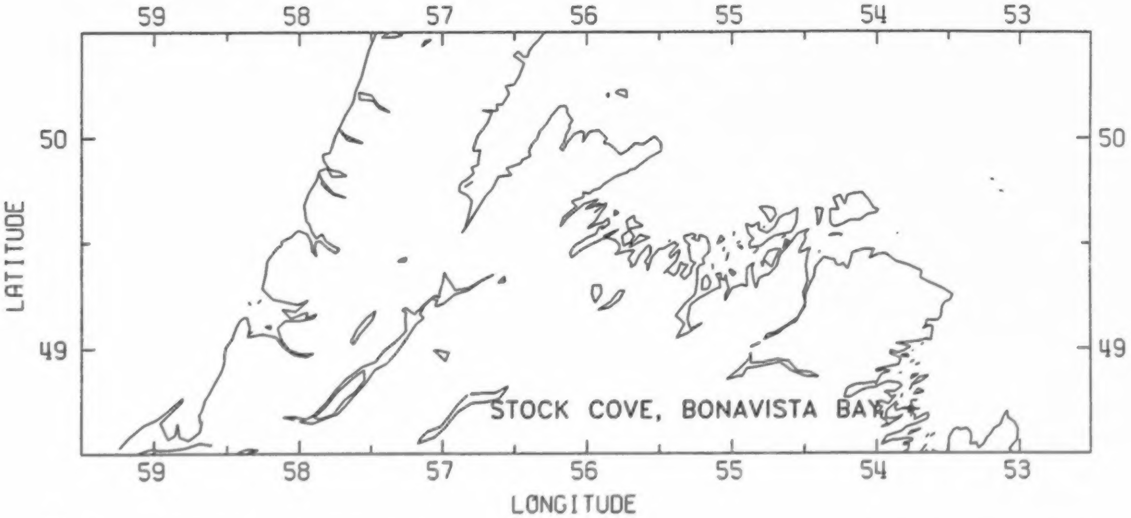
Start: 6-NOV-2001 End: 13-MAY-2002 Inst. S/N: 3287

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2002

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	004323
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-MAY-2002 20:00 GMT
RECOVERY DATE/TIME:	23-SEP-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	-0.35	144	4.00	149	2.21	0.92	41.6	0.0	436
JUN-2002	0.10	154	9.55	180	6.12	2.22	183.7	72.3	720
JUL-2002	6.20	193	13.55	209	10.07	1.80	312.2	188.2	744
AUG-2002	10.20	238	17.45	230	14.15	1.13	438.6	314.6	744
SEP-2002	5.50	256	14.00	250	11.76	1.62	270.4	178.4	547
T.PERIOD	-0.35	144	17.45	230	9.35	4.31	1246.4	753.4	3191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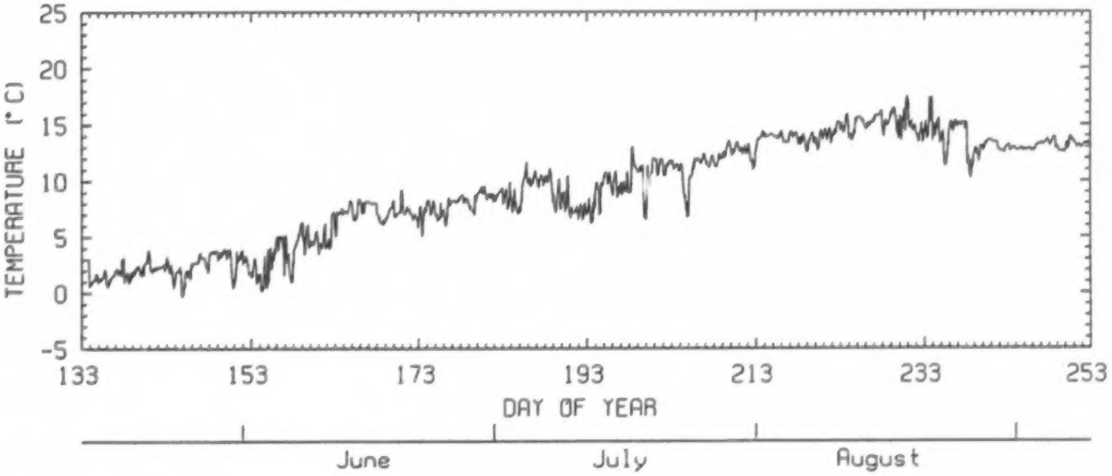
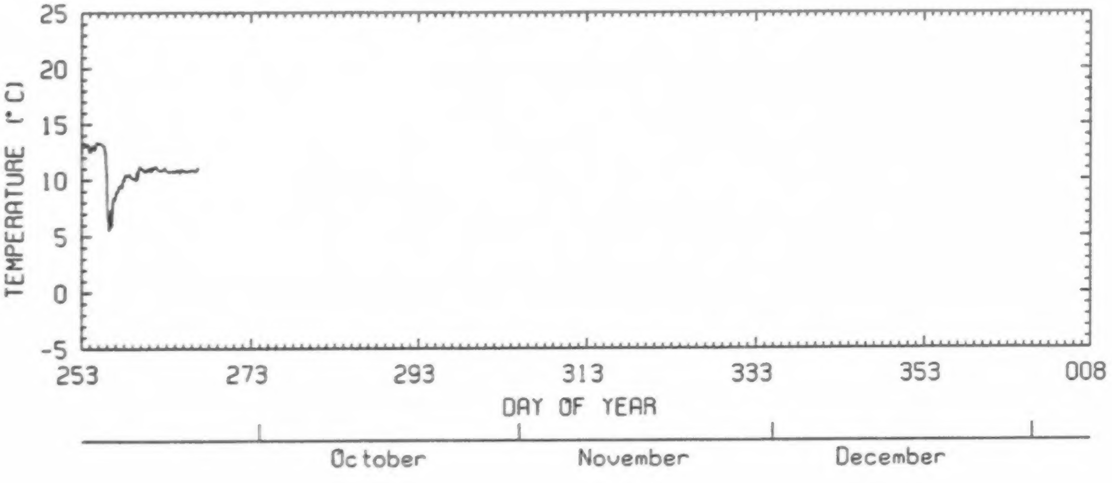
LATITUDE
LONGITUDE
STOCK COVE, BONAVISTA BAY





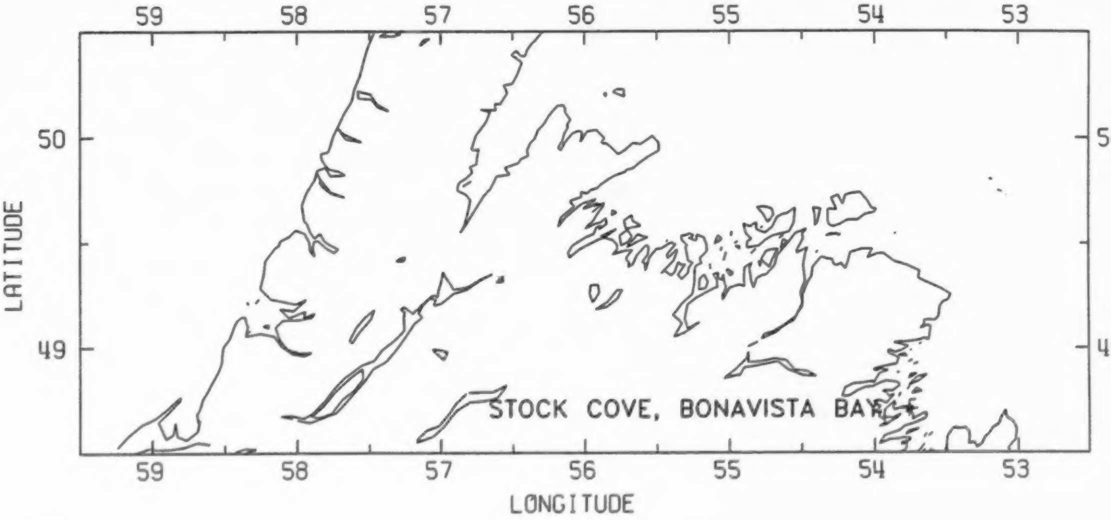
Start:13-MAY-2002 End:23-SEP-2002 Inst. S/N:4323

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2002

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007944
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-SEP-2002 19:00 GMT
RECOVERY DATE/TIME:	20-NOV-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2002	10.15	273	11.95	269	11.05	0.43	88.3	56.3	173
OCT-2002	4.70	302	10.40	276	8.14	1.54	252.3	128.3	744
NOV-2002	3.20	324	5.50	305	4.56	0.45	90.9	11.3	475
T.PERIOD	3.20	324	11.95	269	7.28	2.46	431.6	196.0	1392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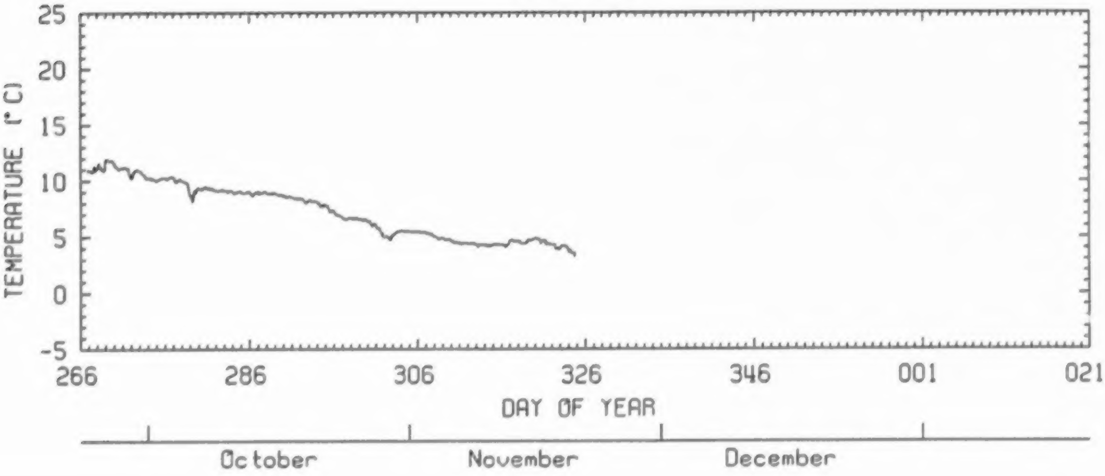
LATITUDE
STOCK COVE, BONAVISTA BAY
LONGITUDE



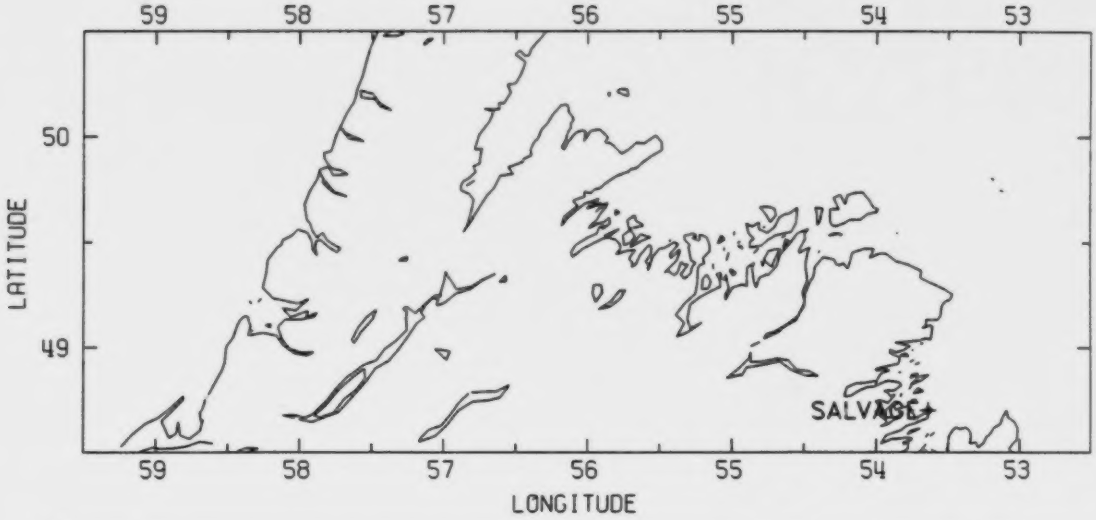
Start: 23-SEP-2002 End: 20-NOV-2002 Inst. S/N: 7944

THERMOGRAPH DATA SUMMARY: SALVAGE (129) 2002

STATION NAME:	SALVAGE
STATION NUMBER:	129
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007934
LATITUDE:	48.70° N
LONGITUDE:	53.64° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-MAY-2002 15:00 GMT
RECOVERY DATE/TIME:	12-NOV-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	-0.30	136	4.55	149	2.17	1.02	44.7	0.0	489
JUN-2002	0.50	156	9.50	181	5.73	2.21	171.9	61.6	720
JUL-2002	4.25	194	13.50	209	9.48	1.94	293.8	169.8	744
AUG-2002	5.90	238	17.65	231	13.10	1.65	406.1	282.1	744
SEP-2002	7.10	256	13.50	250	11.22	1.17	336.6	216.6	720
OCT-2002	4.30	301	10.30	274	8.26	1.54	256.2	132.2	744
NOV-2002	3.80	316	5.55	306	4.64	0.54	55.5	7.5	278
T.PERIOD	-0.30	136	17.65	231	8.45	3.76	1564.7	869.7	4439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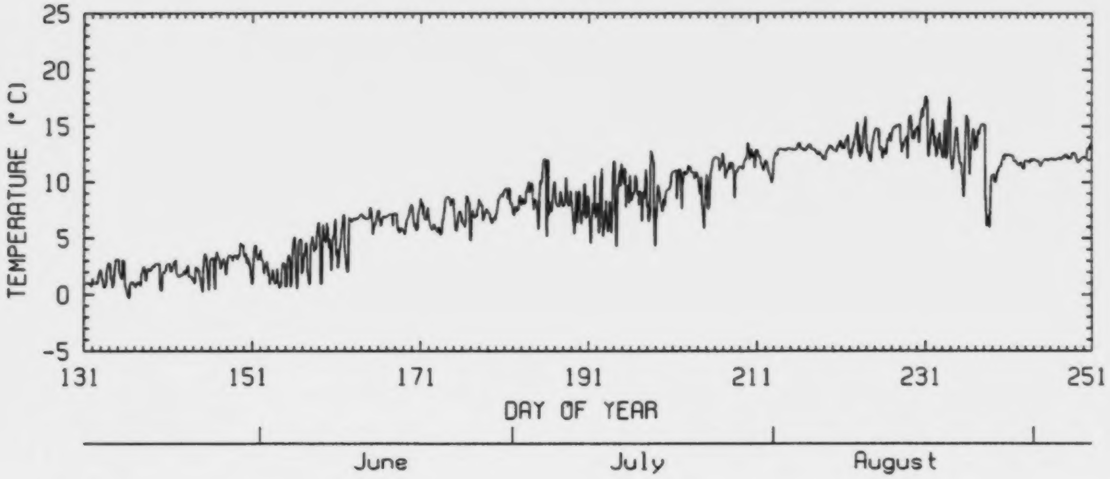
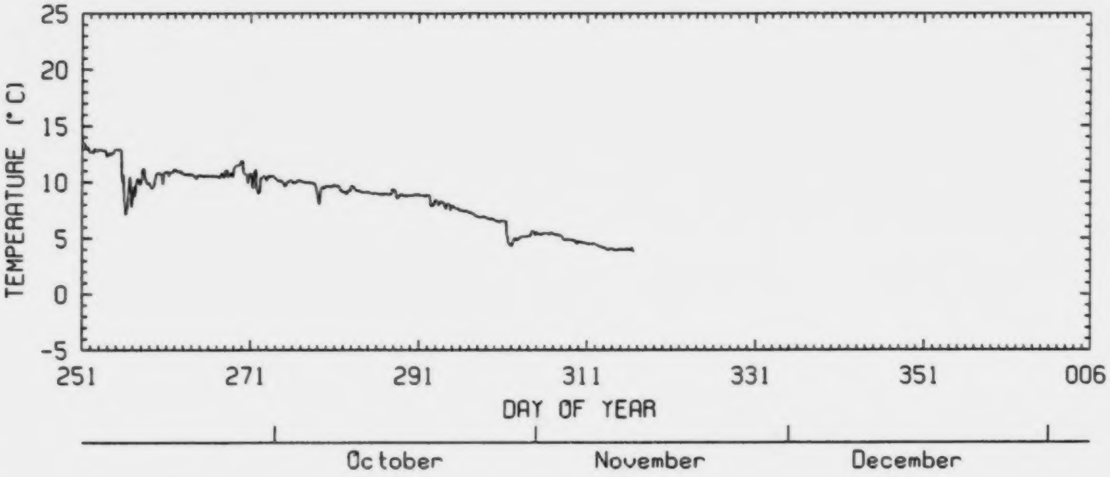




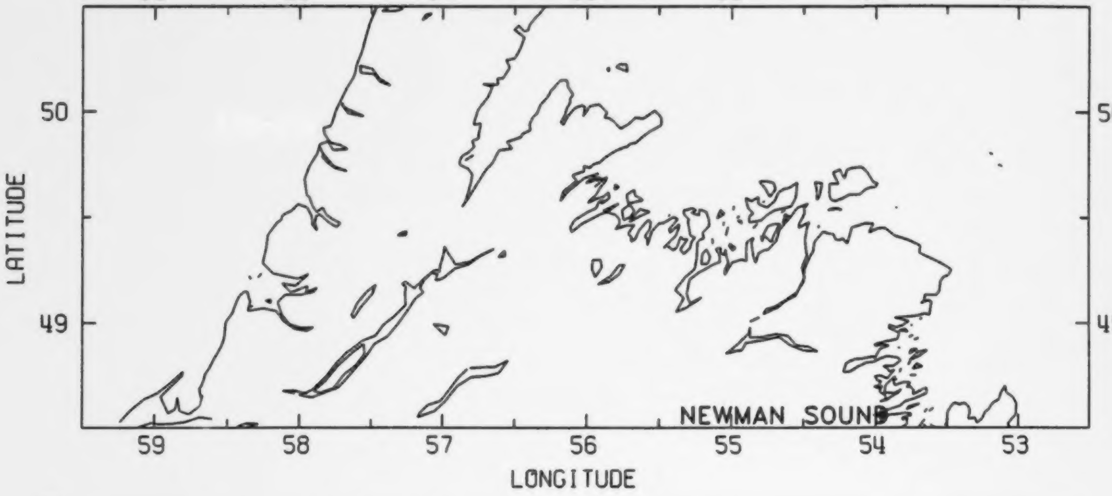
Start:11-MAY-2002 End:12-NOV-2002 Inst. S/N:7934

THERMOGRAPH DATA SUMMARY: NEWMAN SOUND (Dockside) (226) 2002

STATION NAME:	NEWMAN SOUND (Dockside)
STATION NUMBER:	226
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006646
LATITUDE:	48.56° N
LONGITUDE:	53.96° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-MAY-2002 18:00 GMT
RECOVERY DATE/TIME:	21-NOV-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	0.35	147	4.80	148	2.40	1.18	18.3	0.0	174
JUN-2002	0.90	157	11.90	180	7.32	2.88	219.7	107.5	720
JUL-2002	5.60	193	15.65	210	10.99	2.14	340.8	216.8	744
AUG-2002	11.50	239	18.70	233	15.16	1.51	469.9	345.9	744
SEP-2002	7.30	257	14.45	250	12.24	1.13	367.1	247.2	720
OCT-2002	5.20	300	10.80	274	8.67	1.37	268.9	144.9	744
NOV-2002	3.10	322	6.40	305	4.76	0.62	99.5	16.1	497
T.PERIOD	0.35	147	18.70	233	9.85	3.96	1784.2	1078.2	4343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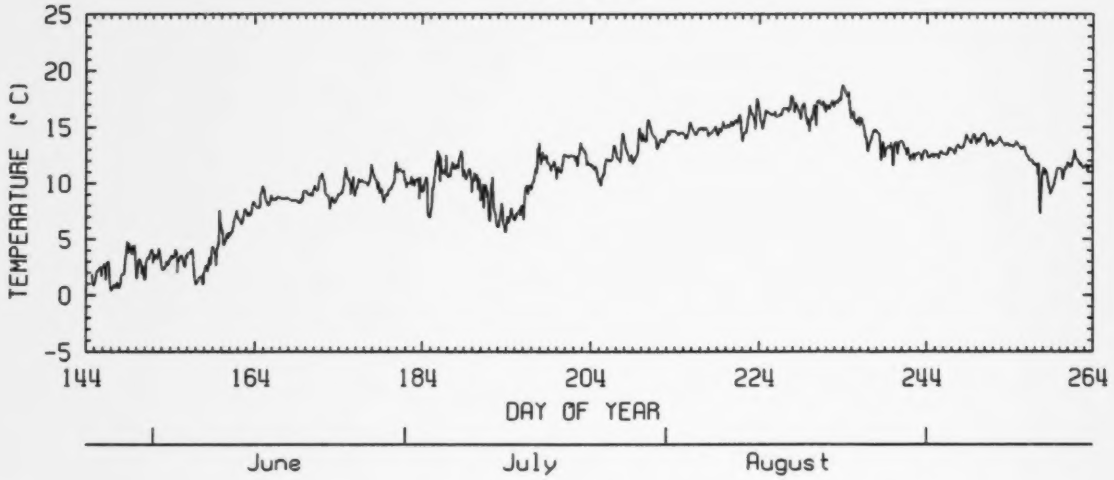
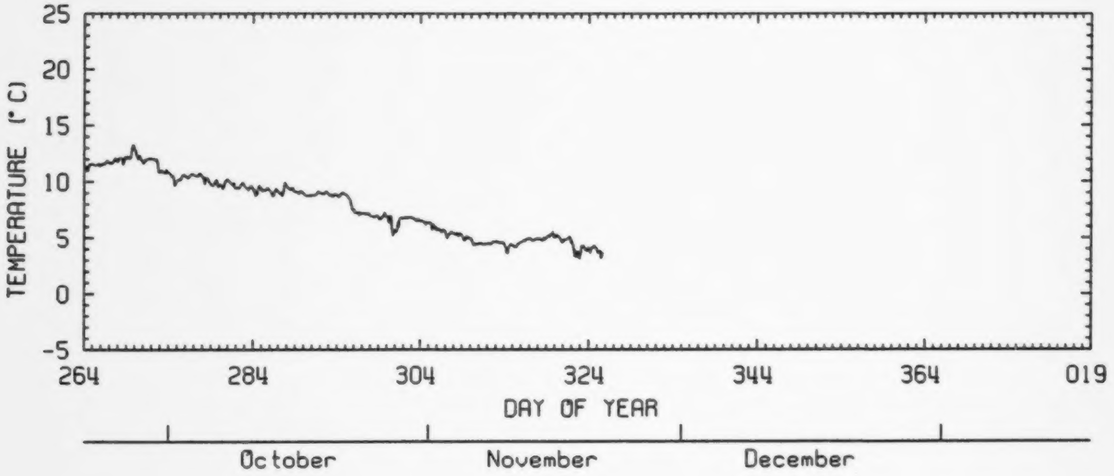
LATITUDE
NEWMAN SOUND
LONGITUDE





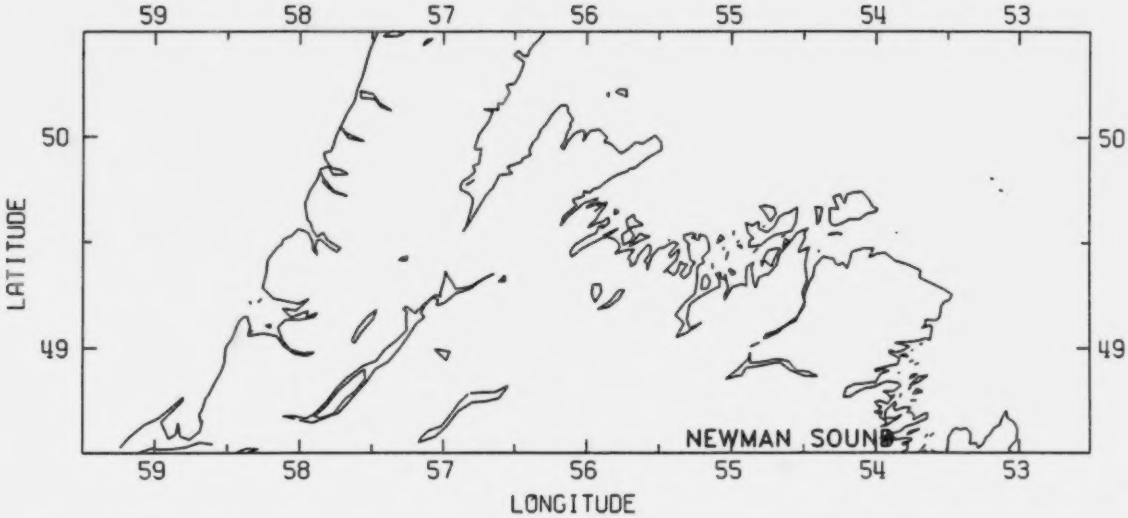
Start:24-MAY-2002 End:21-NOV-2002 Inst. S/N:6646

THERMOGRAPH DATA SUMMARY: NEWMAN SOUND (Cannings Cove) (226) 2002

STATION NAME:	NEWMAN SOUND (Cannings Cove)
STATION NUMBER:	226
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008955
LATITUDE:	48.57° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-MAY-2002 16:00 GMT
RECOVERY DATE/TIME:	21-NOV-2002 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	1.95	149	7.40	149	4.24	1.03	34.3	3.7	176
JUN-2002	2.30	159	12.50	181	7.84	2.34	235.1	115.2	720
JUL-2002	7.95	195	16.00	211	12.05	1.64	373.5	249.5	744
AUG-2002	12.50	243	19.05	234	15.85	1.53	491.3	367.3	744
SEP-2002	10.15	259	15.40	249	12.75	1.04	382.6	262.6	720
OCT-2002	6.10	299	11.30	276	8.82	1.35	273.5	149.5	744
NOV-2002	2.90	324	6.30	305	4.85	0.74	101.4	18.8	498
T.PERIOD	1.95	149	19.05	234	10.42	3.93	1891.7	1166.6	4346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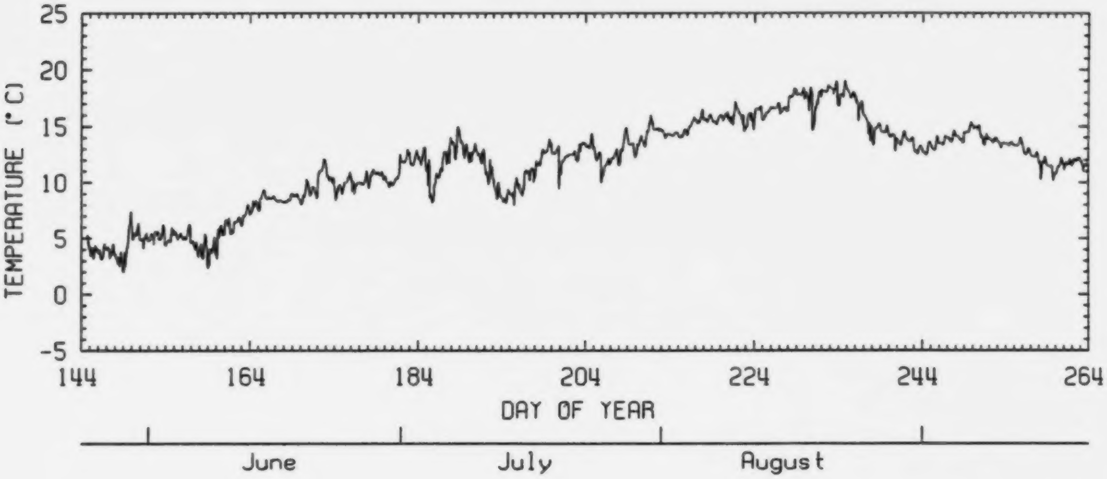
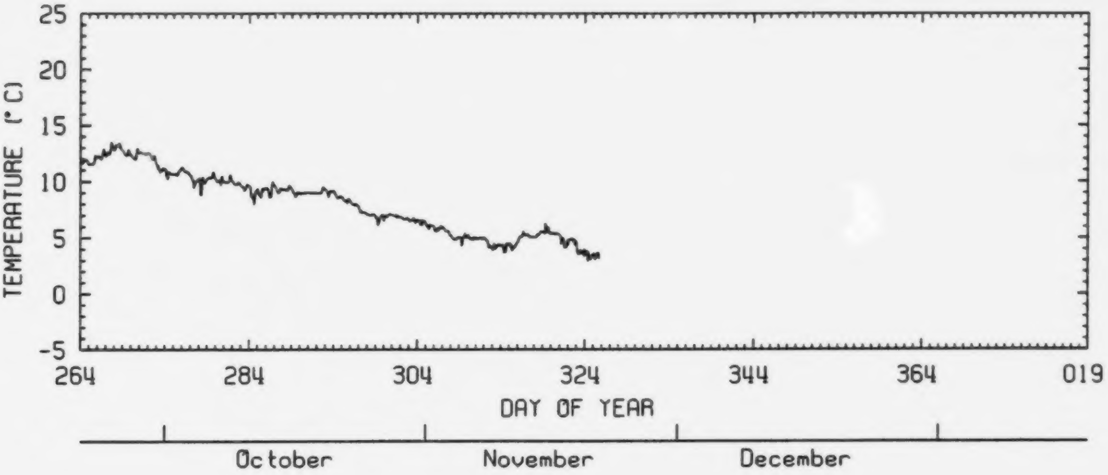
LATITUDE
NEWMAN SOUND
LONGITUDE





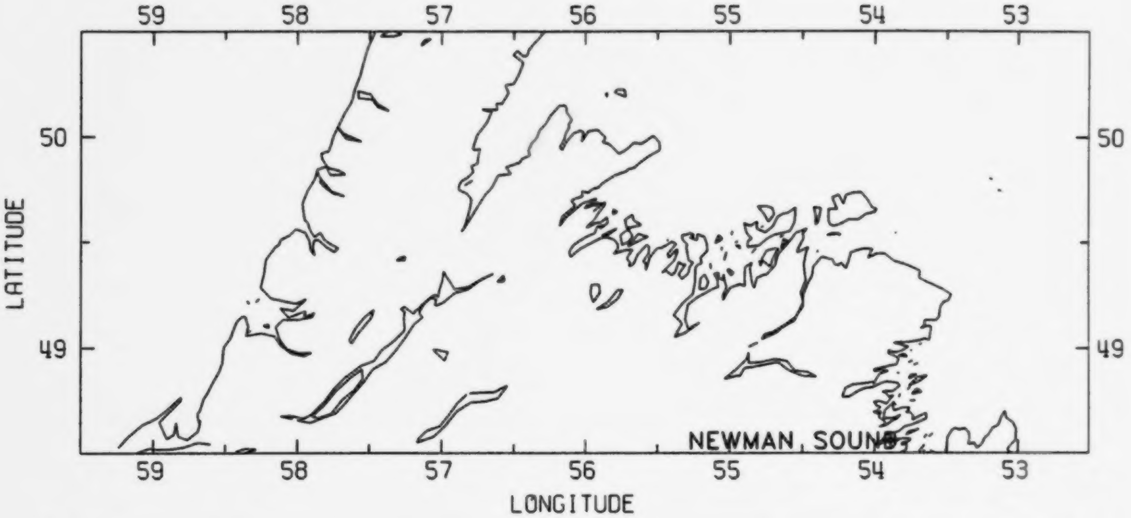
Start:24-MAY-2002 End:21-NOV-2002 Inst. S/N:8955

THERMOGRAPH DATA SUMMARY: NEWMAN SOUND (Hefferns Cove) (226) 2002

STATION NAME:	NEWMAN SOUND (Hefferns Cove)
STATION NUMBER:	226
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008964
LATITUDE:	48.56° N
LONGITUDE:	53.89° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-MAY-2002 16:00 GMT
RECOVERY DATE/TIME:	12-NOV-2002 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	-0.15	145	4.85	149	2.94	1.23	22.3	0.3	176
JUN-2002	1.05	156	10.70	180	7.28	2.57	218.4	103.2	720
JUL-2002	5.30	194	15.05	210	10.97	1.88	339.9	215.9	744
AUG-2002	8.80	239	18.70	233	15.10	1.58	468.0	344.0	744
SEP-2002	5.40	256	14.60	249	12.17	1.38	365.0	245.0	720
OCT-2002	5.50	296	10.95	275	8.81	1.49	273.2	149.2	744
NOV-2002	3.80	310	6.00	305	5.05	0.55	60.6	12.6	287
T.PERIOD	-0.15	145	18.70	233	10.14	3.75	1747.5	1070.3	4135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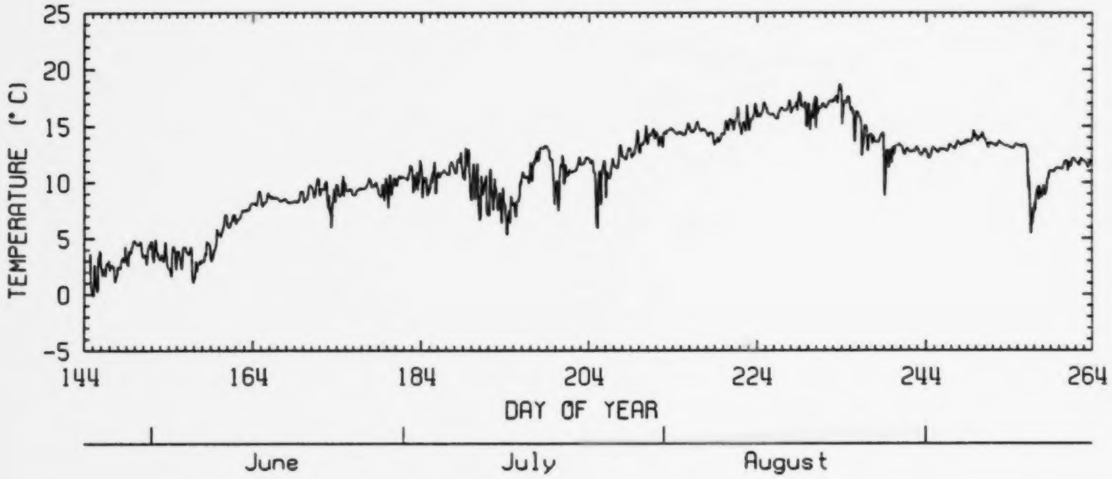
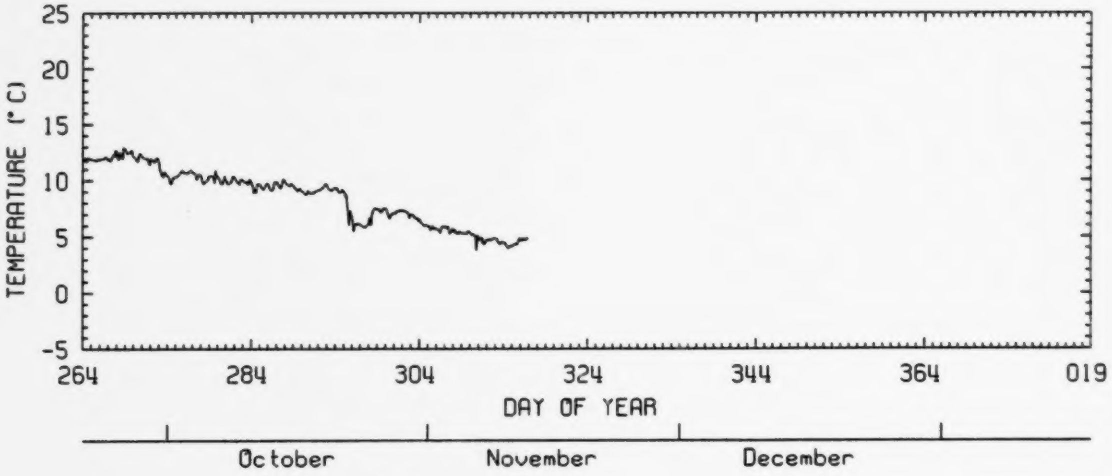
LATITUDE
LONGITUDE
NEWMAN SOUND





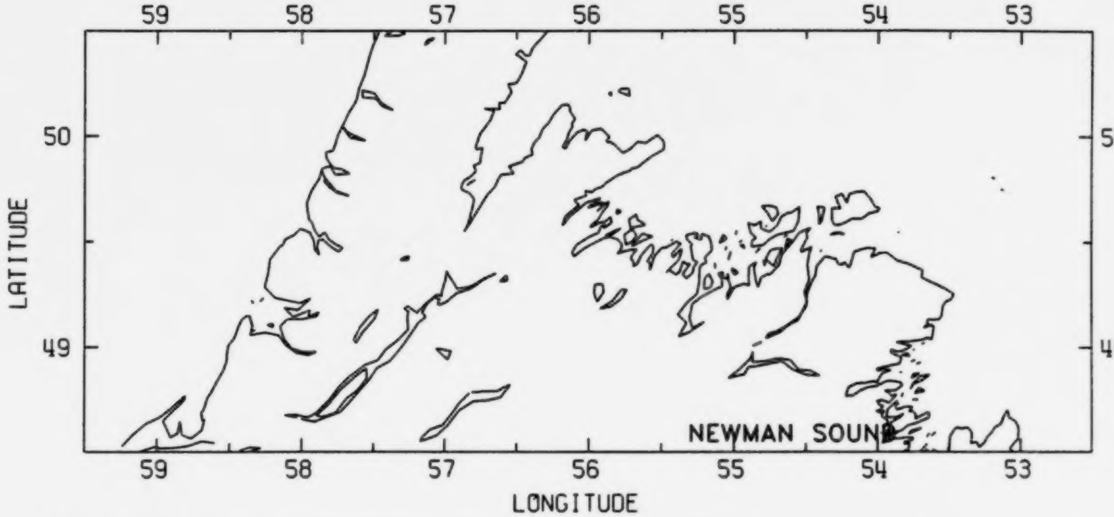
Start:24-MAY-2002 End:12-NOV-2002 Inst. S/N:8964

THERMOGRAPH DATA SUMMARY: NEWMAN SOUND (Buckleg Cove) (226) 2002

STATION NAME:	NEWMAN SOUND (Buckleg Cove)
STATION NUMBER:	226
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006593
LATITUDE:	48.59° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-MAY-2002 16:00 GMT
RECOVERY DATE/TIME:	21-NOV-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	1.90	148	6.45	150	4.26	1.07	35.0	4.5	176
JUN-2002	2.60	159	11.85	172	7.73	2.21	231.9	112.3	720
JUL-2002	6.80	195	16.05	188	12.05	1.67	373.6	249.6	744
AUG-2002	11.50	240	18.85	232	15.62	1.60	484.2	360.2	744
SEP-2002	8.05	258	15.45	249	12.50	1.03	375.1	255.1	720
OCT-2002	6.00	304	11.10	274	8.78	1.30	272.1	148.1	744
NOV-2002	2.55	324	6.05	305	4.70	0.71	98.4	16.1	499
T.PERIOD	1.90	148	18.85	232	10.30	3.88	1870.2	1145.9	4347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LATITUDE
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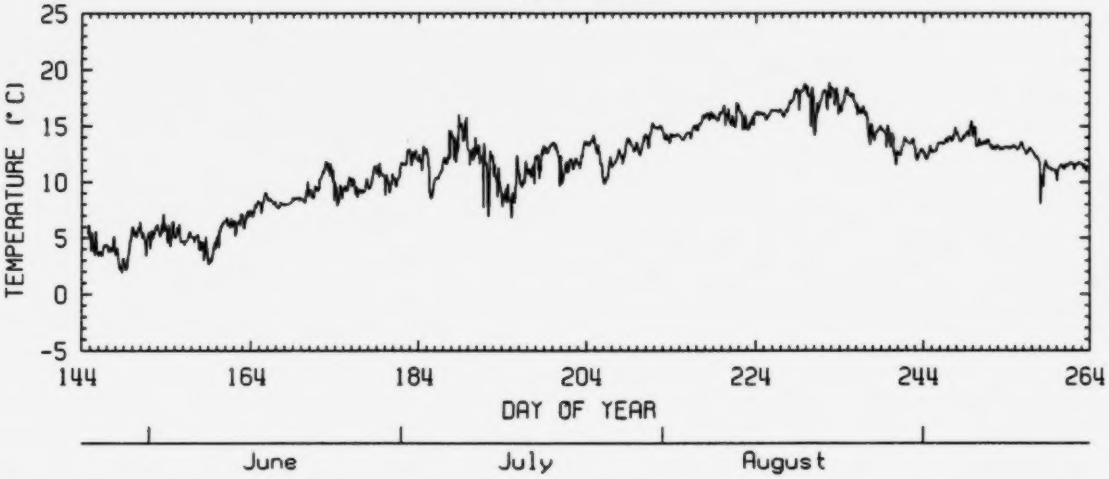
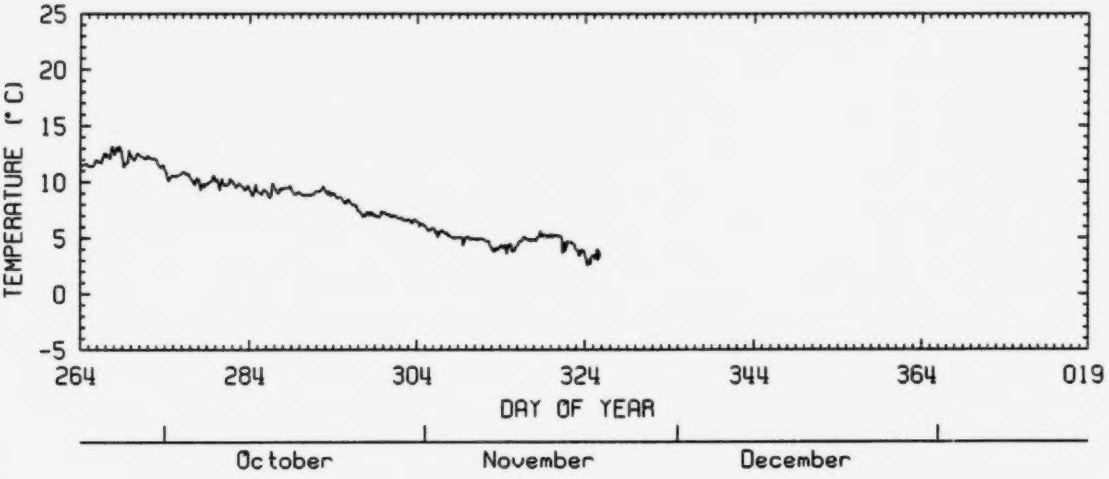
LONGITUDE





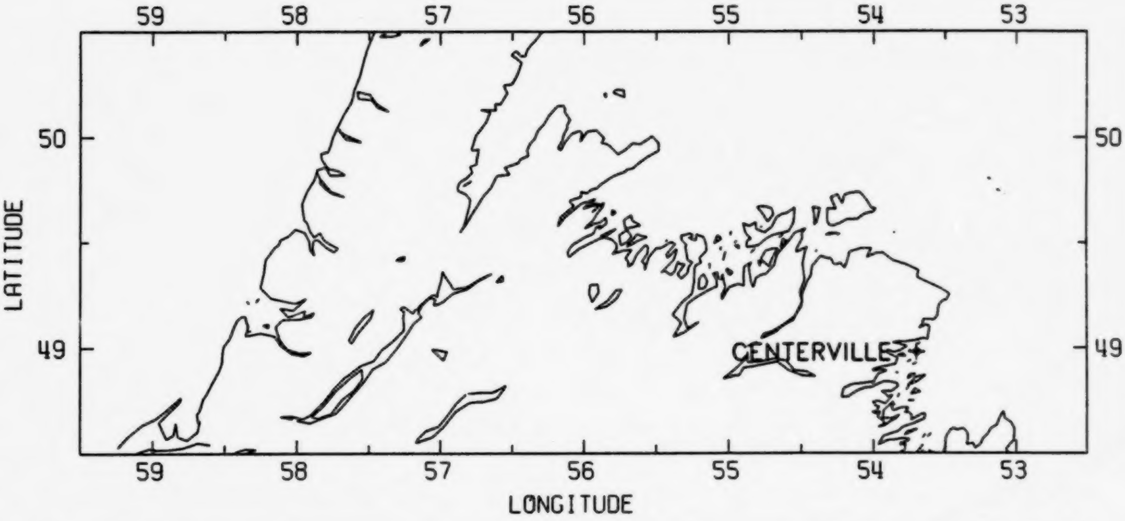
Start:24-MAY-2002 End:21-NOV-2002 Inst. S/N:6593

THERMOGRAPH DATA SUMMARY: CENTERVILLE (240) 2002

STATION NAME:	CENTERVILLE
STATION NUMBER:	240
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006593
LATITUDE:	48.98° N
LONGITUDE:	53.70° W
INSTRUMENT DEPTH:	16 m
WATER DEPTH:	17 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2002 01:00 GMT
RECOVERY DATE/TIME:	21-JUL-2002 01:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	1.80	189	10.55	200	6.15	2.18	126.2	47.3	454
T.PERIOD	1.80	189	10.55	200	6.15	2.18	126.2	47.3	454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LATITUDE
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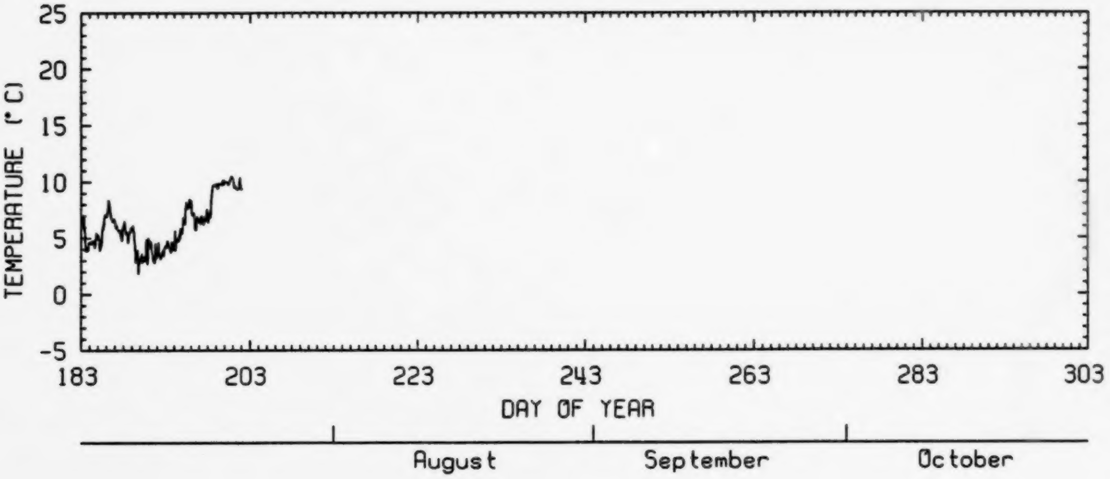
CENTERVILLE



Start: 2-JUL-2002 End: 21-JUL-2002 Inst. S/N:6593

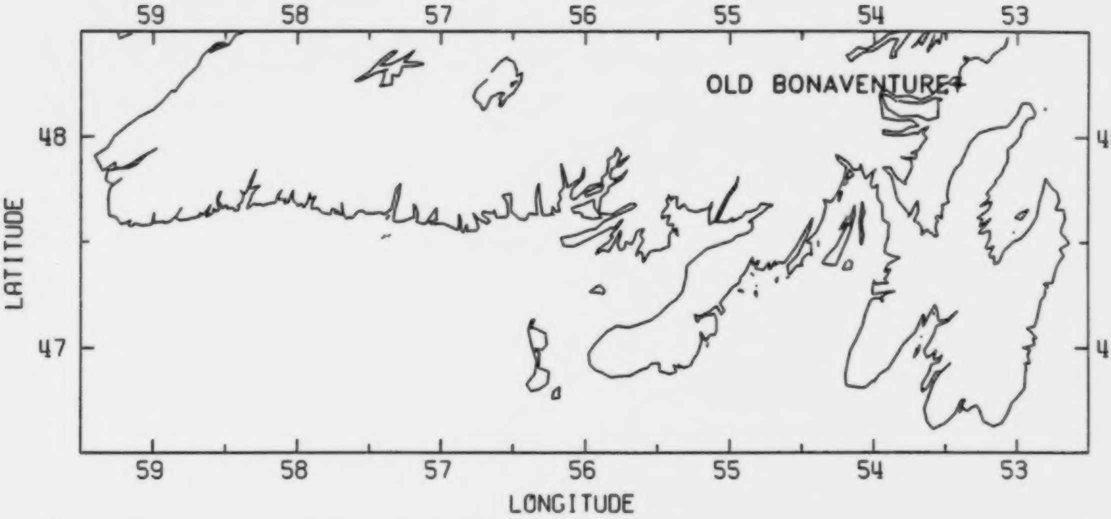
Appendix 8. Times Series Plots and Monthly Statistics from Unit Area 3Lb

THERMOGRAPH DATA SUMMARY: OLD BONAVENTURE (100) 2002

STATION NAME:	OLD BONAVENTURE
STATION NUMBER:	100
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007935
LATITUDE:	48.25° N
LONGITUDE:	53.42° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-MAY-2002 12:00 GMT
RECOVERY DATE/TIME:	10-NOV-2002 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	0.55	151	1.35	151	0.88	0.27	0.9	0.0	12
JUN-2002	0.75	154	8.20	181	4.82	2.03	144.5	41.8	720
JUL-2002	2.15	193	10.70	211	6.73	2.35	208.8	88.4	744
AUG-2002	5.55	239	14.80	234	11.39	1.66	352.9	228.9	744
SEP-2002	6.45	257	12.35	250	10.50	1.17	315.0	195.0	720
OCT-2002	4.50	296	9.80	281	7.87	1.44	244.1	120.1	744
NOV-2002	4.70	313	6.15	307	5.29	0.39	52.7	12.7	231
T.PERIOD	0.55	151	14.80	234	8.07	3.01	1318.9	686.9	3915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OLD BONAVENTURE+
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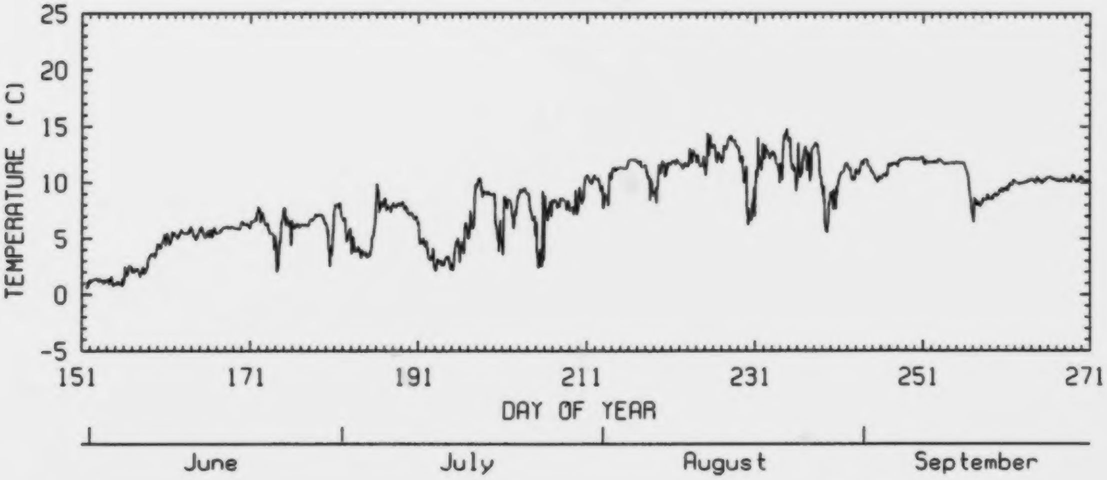
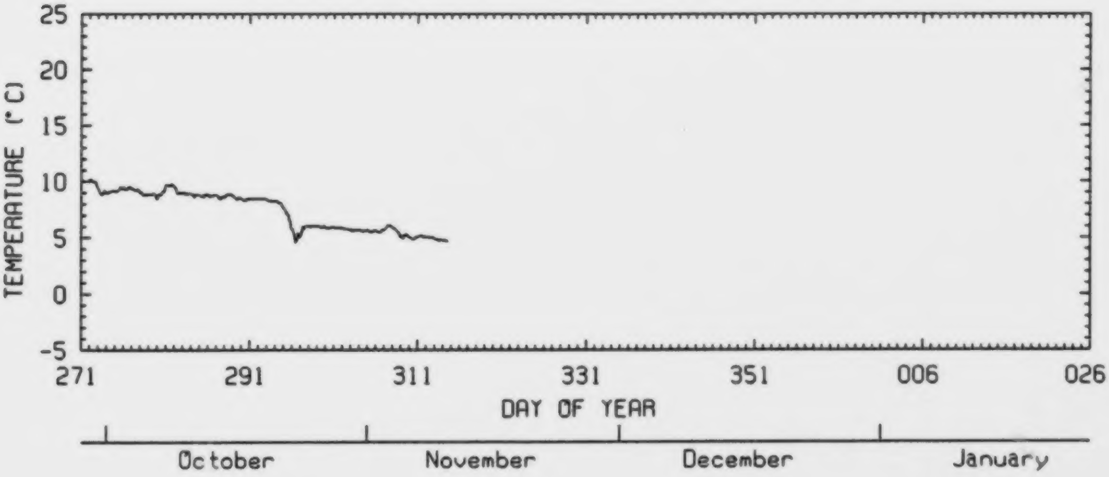




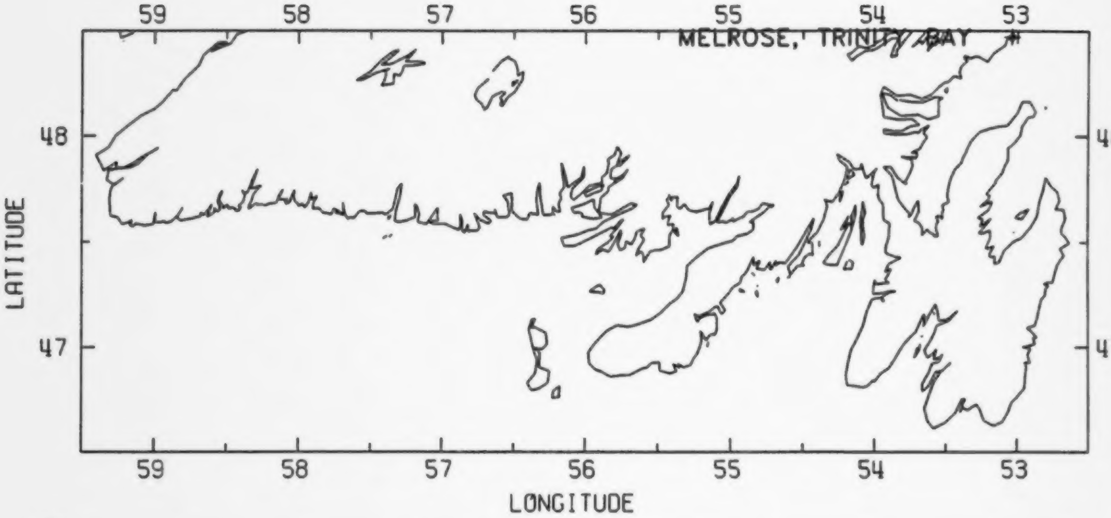
Start:31-MAY-2002 End:10-NOV-2002 Inst. S/N:7935

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2002

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007937
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	40 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	04-JUN-2002 14:00 GMT
RECOVERY DATE/TIME:	12-SEP-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	0.45	179	8.40	181	5.59	1.82	149.9	49.4	634
JUL-2002	0.75	200	12.80	198	8.32	2.68	257.9	135.4	744
AUG-2002	3.75	238	16.50	234	12.70	1.99	393.7	269.7	744
SEP-2002	10.80	255	12.25	249	11.77	0.24	141.2	93.2	281
T.PERIOD	0.45	179	16.50	234	9.36	3.54	942.6	547.7	2403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MELROSE, TRINITY BAY
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LATITUDE
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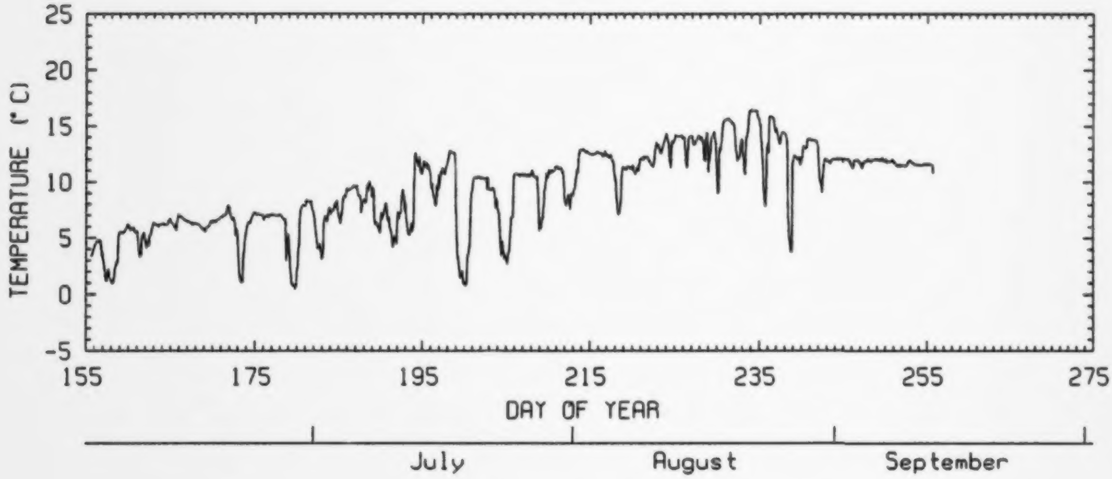


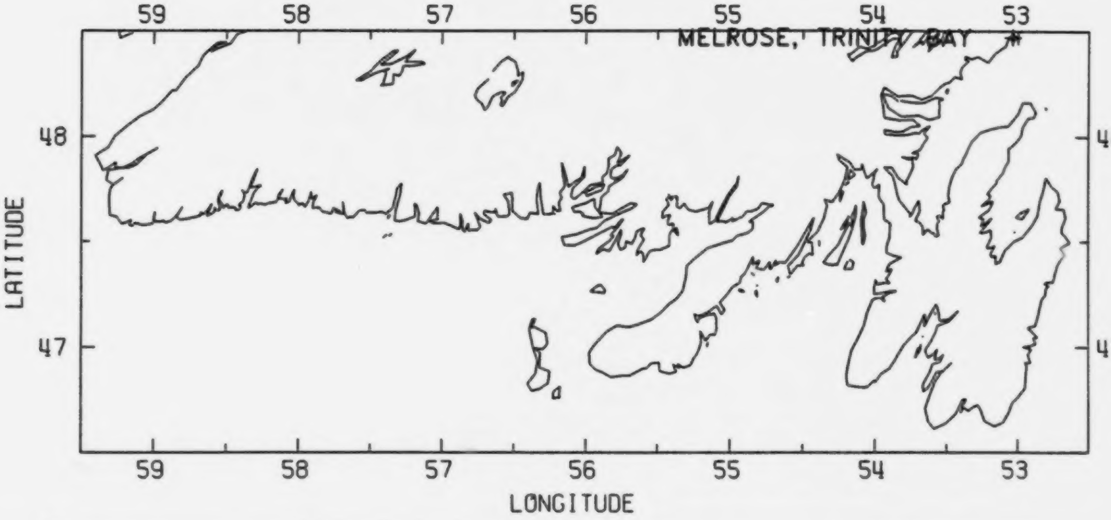
Start: 4-JUN-2002 End: 12-SEP-2002 Inst. S/N: 7937

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2002

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007944
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	40 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	04-JUN-2002 14:00 GMT
RECOVERY DATE/TIME:	12-SEP-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	0.15	179	7.80	181	4.85	2.04	130.1	34.4	634
JUL-2002	0.40	200	12.75	198	7.11	2.84	220.4	100.7	744
AUG-2002	2.35	238	16.25	233	11.51	2.48	356.8	232.8	744
SEP-2002	8.70	255	12.10	244	11.56	0.36	138.6	90.6	281
T.PERIOD	0.15	179	16.25	233	8.40	3.68	845.9	458.5	2403



MELROSE, TRINITY BAY
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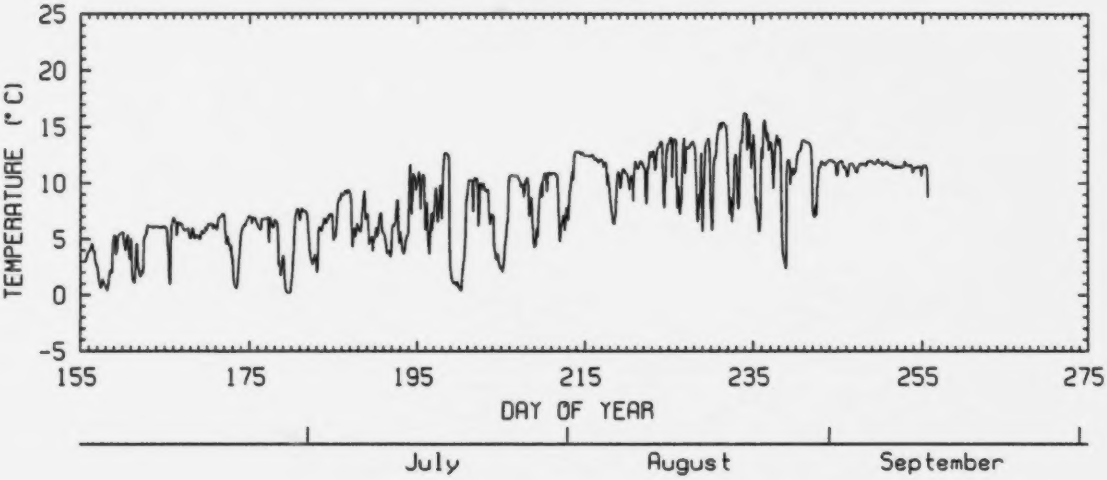


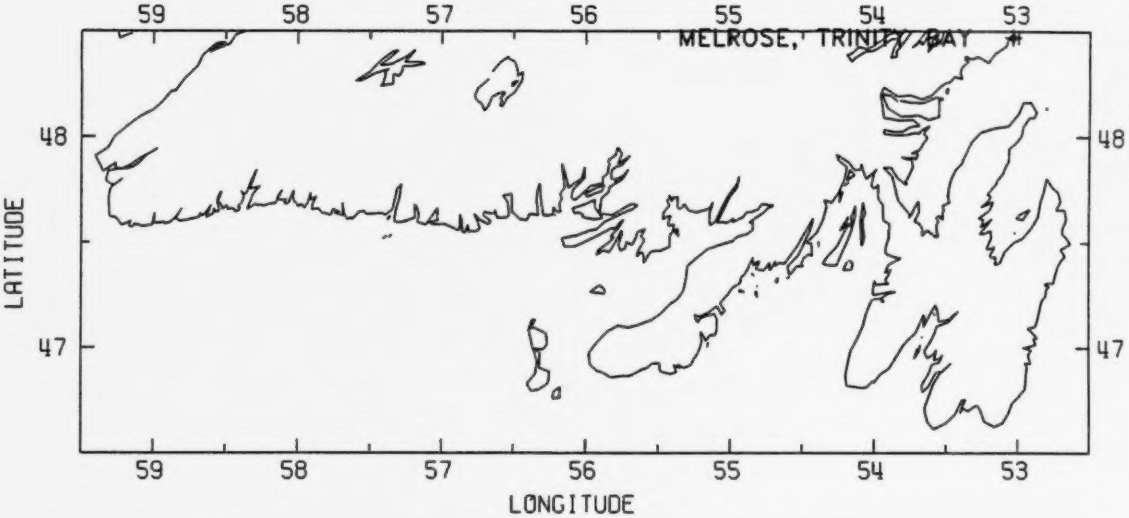
Start: 4-JUN-2002 End: 12-SEP-2002 Inst. S/N: 7944

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2002

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008956
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	40 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	15-SEP-2002 15:00 GMT
RECOVERY DATE/TIME:	25-OCT-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2002	7.75	258	10.70	261	9.44	0.66	150.6	86.6	369
OCT-2002	6.00	298	9.30	276	7.88	0.90	196.1	96.1	589
T.PERIOD	6.00	298	10.70	261	8.48	1.12	346.7	182.7	958


MELROSE, TRINITY BAY
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LATITUDE
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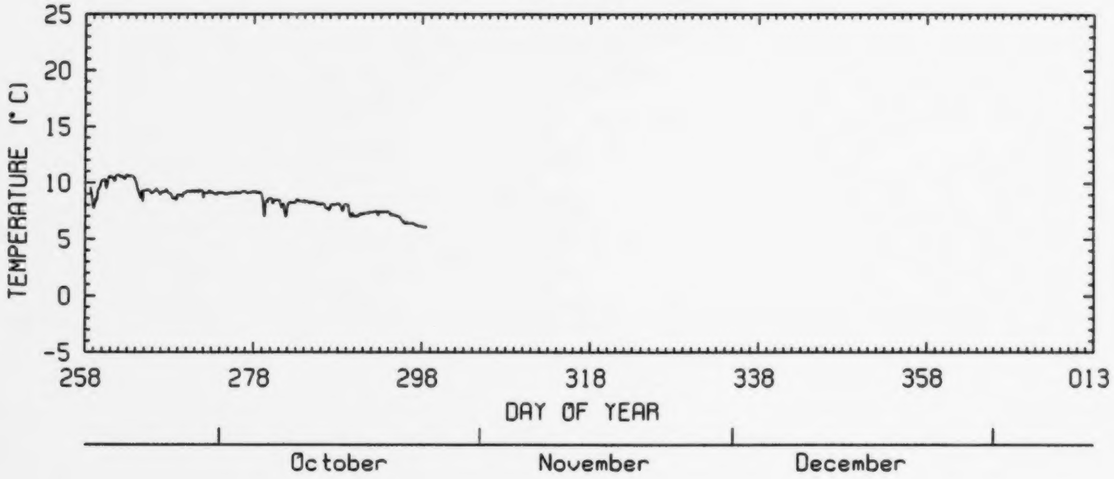


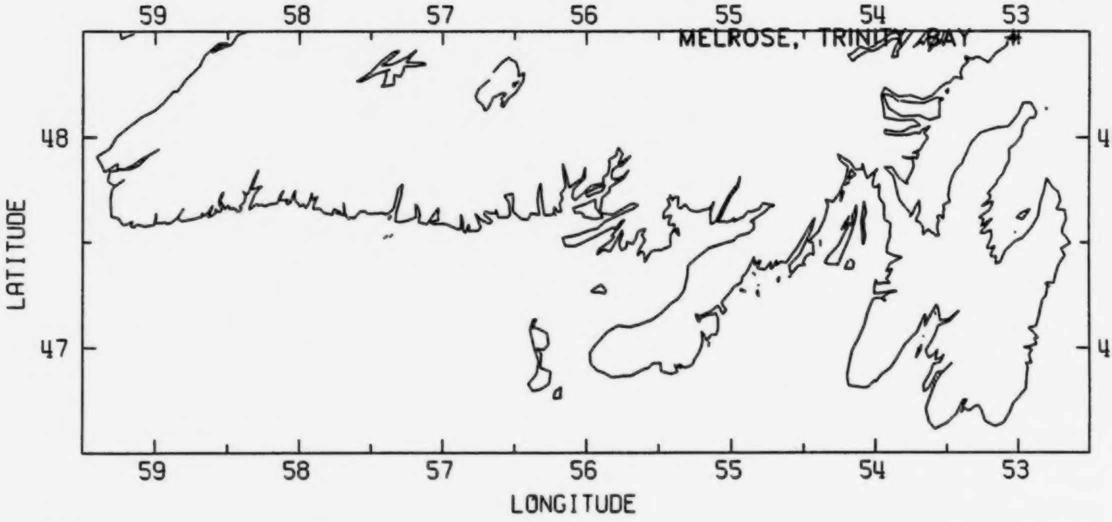
Start: 15-SEP-2002 End: 25-OCT-2002 Inst. S/N:8956

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2002

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007945
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	40 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	15-SEP-2002 15:00 GMT
RECOVERY DATE/TIME:	25-OCT-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2002	8.40	259	10.65	261	9.52	0.59	152.1	88.1	369
OCT-2002	5.95	298	9.45	275	7.86	0.88	195.6	95.6	589
T.PERIOD	5.95	298	10.65	261	8.50	1.12	347.7	183.7	958



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MELROSE, TRINITY BAY
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LATITUDE
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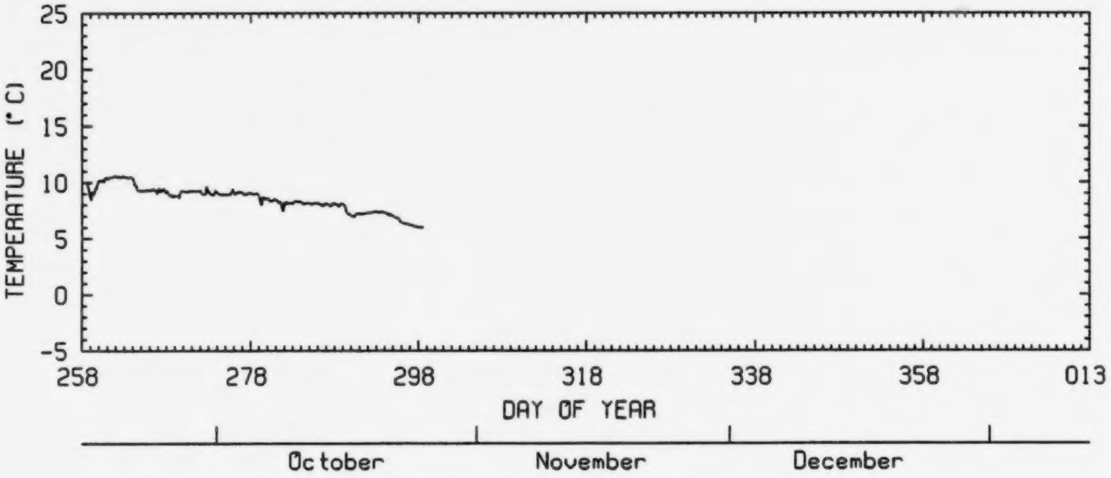


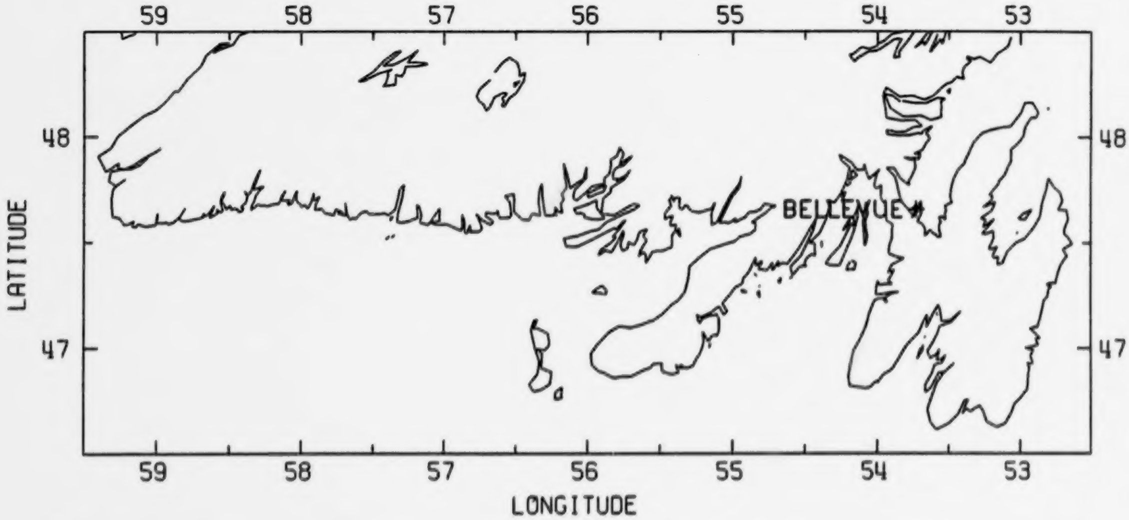
Start: 15-SEP-2002 End: 25-OCT-2002 Inst. S/N:7945

THERMOGRAPH DATA SUMMARY: BELLEVUE (146) 2002

STATION NAME:	BELLEVUE
STATION NUMBER:	146
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002185
LATITUDE:	47.66° N
LONGITUDE:	53.73° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-JUL-2002 16:00 GMT
RECOVERY DATE/TIME:	11-SEP-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	0.50	194	7.70	187	3.38	1.98	92.2	14.3	632
AUG-2002	4.20	240	11.10	215	7.57	1.66	234.6	110.6	744
SEP-2002	7.60	246	12.90	253	10.66	1.45	117.8	73.8	257
T.PERIOD	0.50	194	12.90	253	6.44	3.18	444.5	198.6	1633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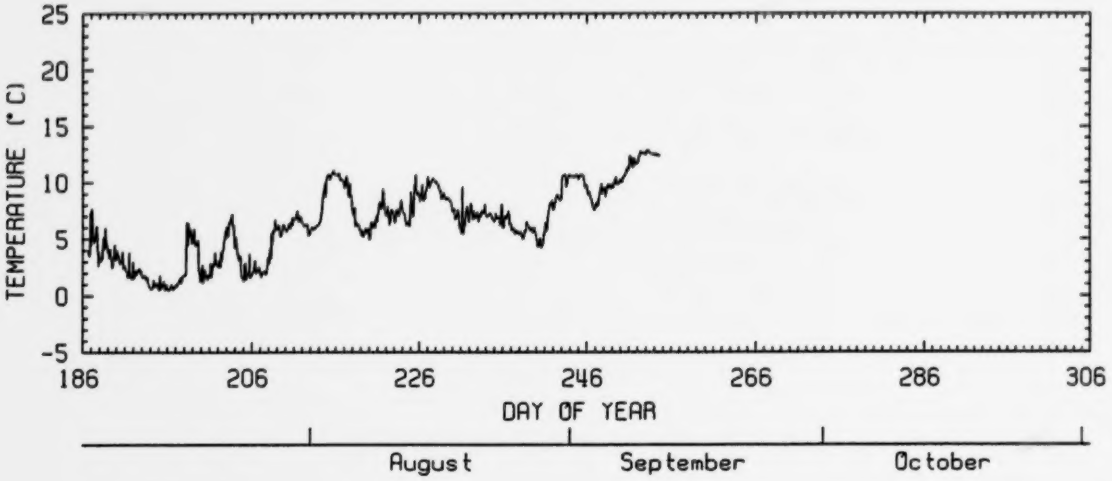


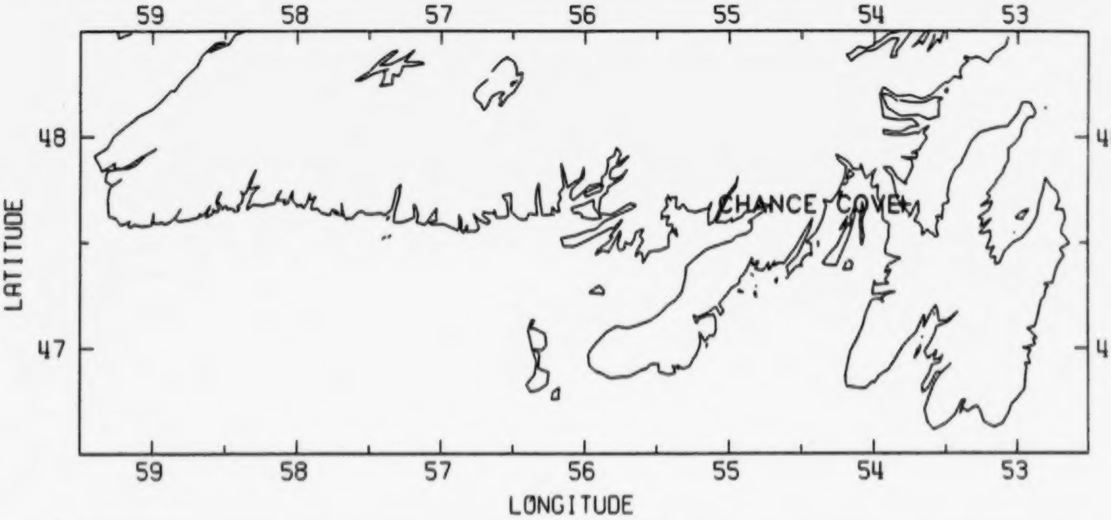
Start: 5-JUL-2002 End: 11-SEP-2002 Inst. S/N:2185

THERMOGRAPH DATA SUMMARY: CHANCE COVE (149) 2002

STATION NAME:	CHANCE COVE
STATION NUMBER:	149
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002186
LATITUDE:	47.68° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-JUL-2002 15:00 GMT
RECOVERY DATE/TIME:	30-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	1.00	200	8.50	198	3.58	1.91	56.2	9.0	369
AUG-2002	4.40	238	11.20	215	8.05	1.66	249.7	125.7	744
SEP-2002	1.60	257	12.90	252	9.67	2.48	289.9	171.8	709
T.PERIOD	1.00	200	12.90	252	7.78	3.04	595.8	306.4	1822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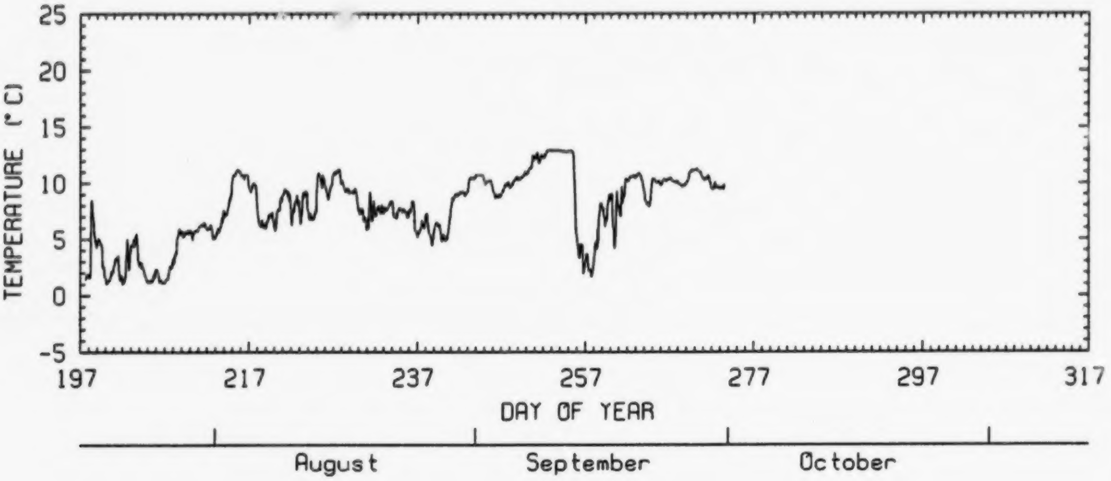
CHANCE COVE



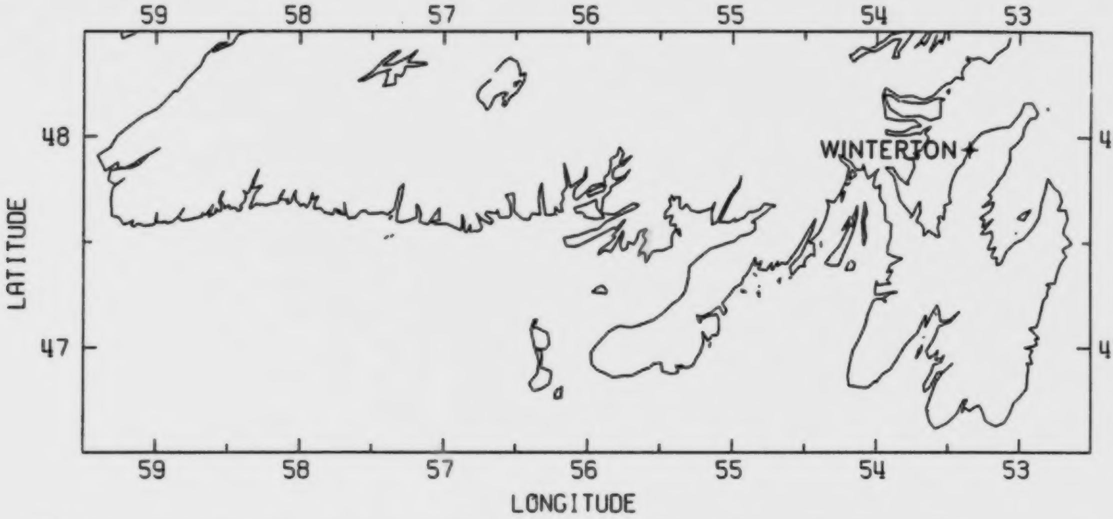
Start: 16-JUL-2002   End: 30-SEP-2002   Inst. S/N:2186

THERMOGRAPH DATA SUMMARY: WINTERTON (189) 2002

STATION NAME:	WINTERTON
STATION NUMBER:	189
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006782
LATITUDE:	47.94° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	13 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-MAY-2002 13:00 GMT
RECOVERY DATE/TIME:	07-OCT-2002 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	4.10	151	4.50	151	4.32	0.16	4.3	0.3	11
JUN-2002	-0.90	164	8.65	179	5.15	2.40	154.6	48.6	720
JUL-2002	0.85	198	13.30	190	9.72	2.14	301.2	177.2	744
AUG-2002	4.45	214	16.95	235	13.38	2.66	414.9	290.9	744
SEP-2002	3.75	244	13.90	250	11.35	1.39	340.4	220.4	720
OCT-2002	9.60	277	10.50	274	10.17	0.21	71.2	43.2	162
T.PERIOD	-0.90	164	16.95	235	9.92	3.65	1286.6	780.5	3101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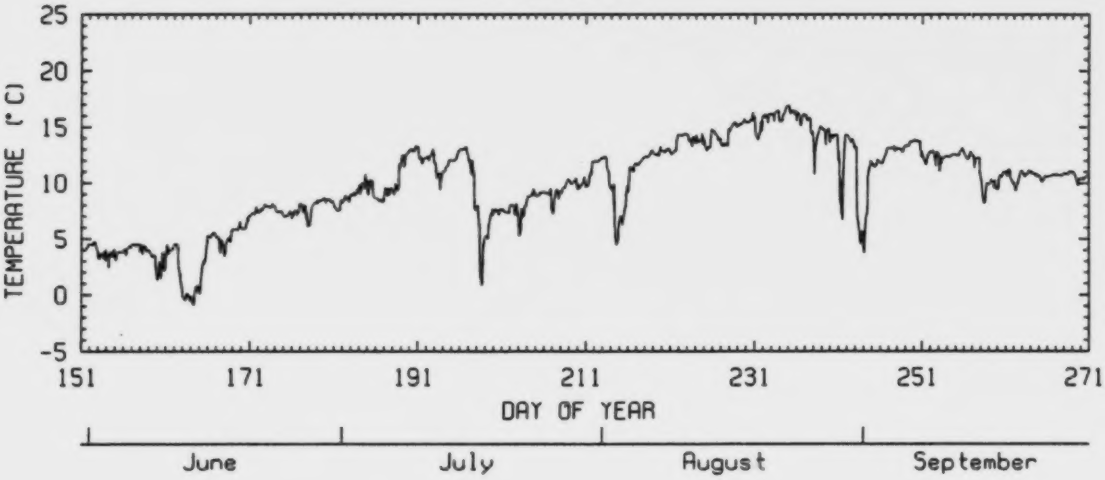
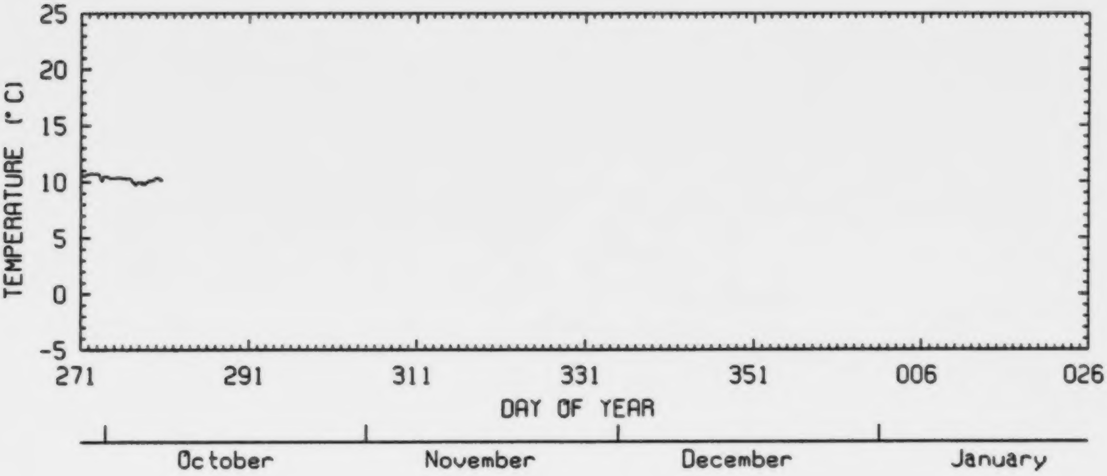
LATITUDE
LONGITUDE
WINTERTON





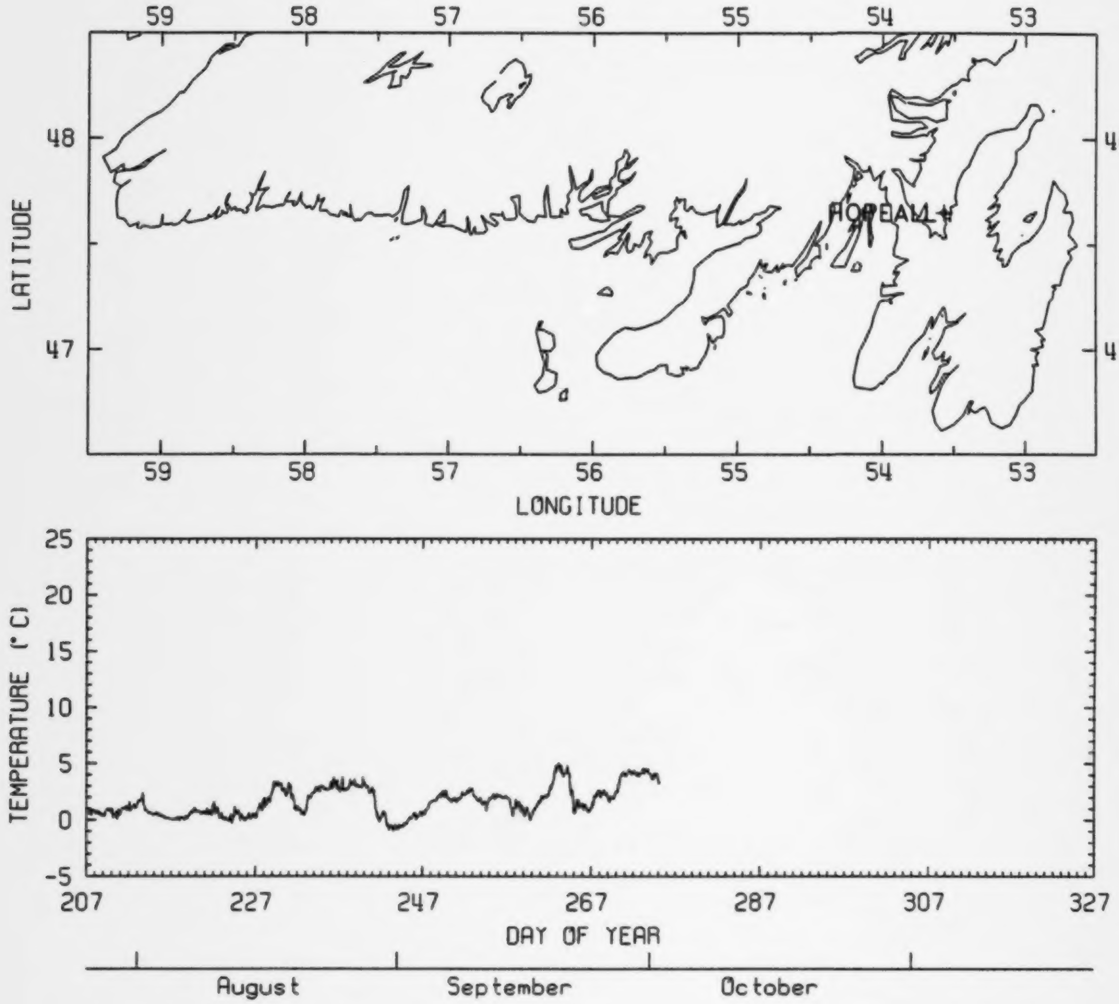
Start:31-MAY-2002 End: 7-OCT-2002 Inst. S/N:6782

THERMOGRAPH DATA SUMMARY: HOPEALL (262) 2002

STATION NAME:	HOPEALL
STATION NUMBER:	262
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006594
LATITUDE:	47.65° N
LONGITUDE:	53.57° W
INSTRUMENT DEPTH:	66 m
WATER DEPTH:	68 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-JUL-2002 08:00 GMT
RECOVERY DATE/TIME:	02-OCT-2002 02:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	0.05	210	1.60	212	0.79	0.29	4.7	0.0	136
AUG-2002	-0.95	243	3.75	237	1.32	1.20	41.7	0.0	744
SEP-2002	-0.85	244	5.00	263	2.03	1.30	61.4	1.0	720
OCT-2002	3.20	275	4.15	274	3.81	0.26	7.1	0.0	27
T.PERIOD	-0.95	243	5.00	263	1.63	1.29	115.0	1.0	1627



Start: 26-JUL-2002 End: 2-OCT-2002 Inst. S/N:6594

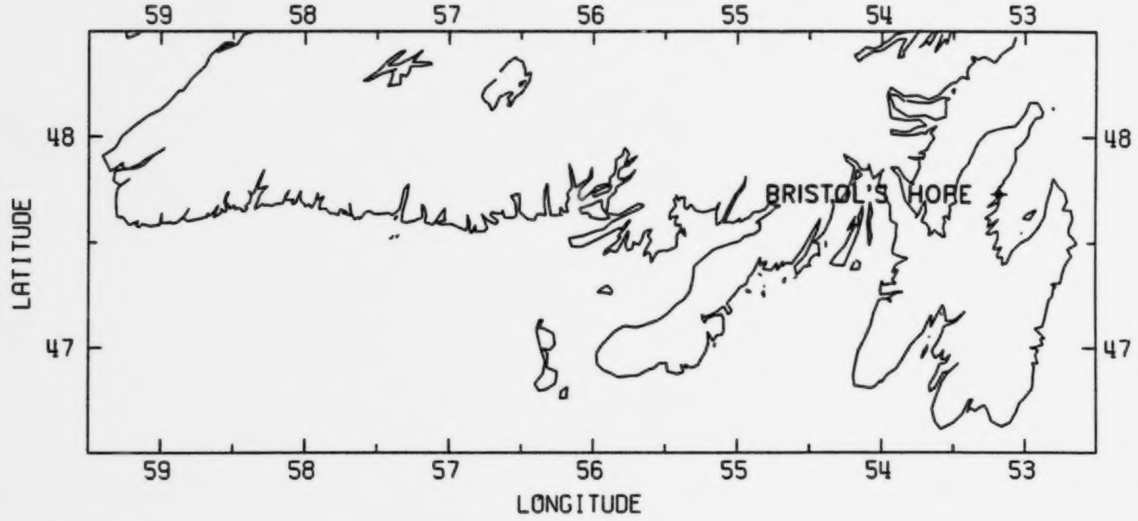
Appendix 9. Times Series Plots and Monthly Statistics from Unit Area 3Lf

THERMOGRAPH DATA SUMMARY: BRISTOL'S HOPE (101) 2002

STATION NAME:	BRISTOL'S HOPE
STATION NUMBER:	101
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008957
LATITUDE:	47.73° N
LONGITUDE:	53.18° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-JUN-2002 11:00 GMT
RECOVERY DATE/TIME:	30-NOV-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	-0.30	173	7.65	178	4.43	2.21	122.5	32.6	661
JUL-2002	-0.50	201	12.30	198	7.62	2.57	236.1	115.8	744
AUG-2002	2.05	239	15.75	234	11.80	2.66	365.9	242.3	744
SEP-2002	0.90	257	13.15	248	10.56	2.27	316.8	198.1	720
OCT-2002	4.80	302	10.20	276	8.13	1.51	252.0	128.0	744
NOV-2002	2.15	329	5.95	306	4.75	0.81	142.0	24.7	709
T.PERIOD	-0.50	201	15.75	234	7.96	3.43	1435.4	741.4	4322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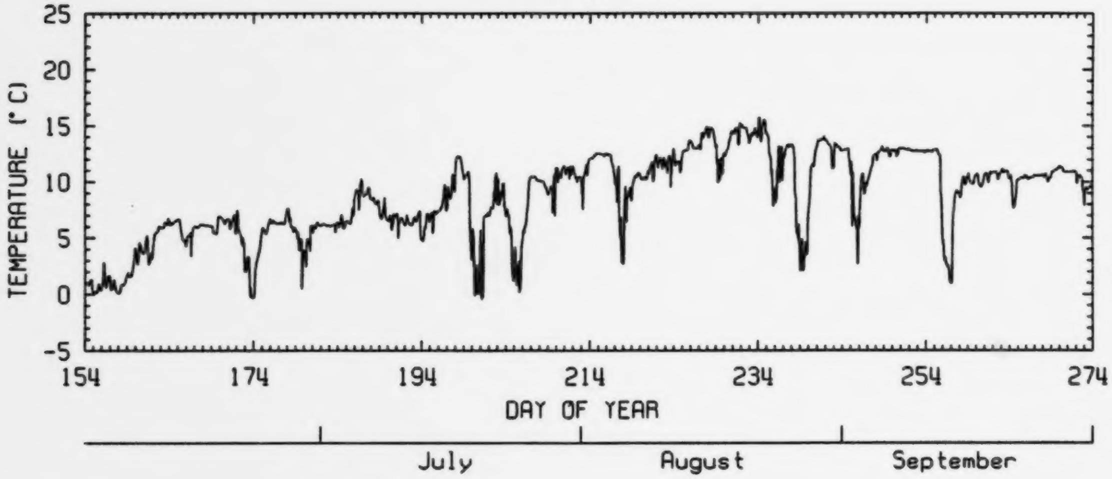
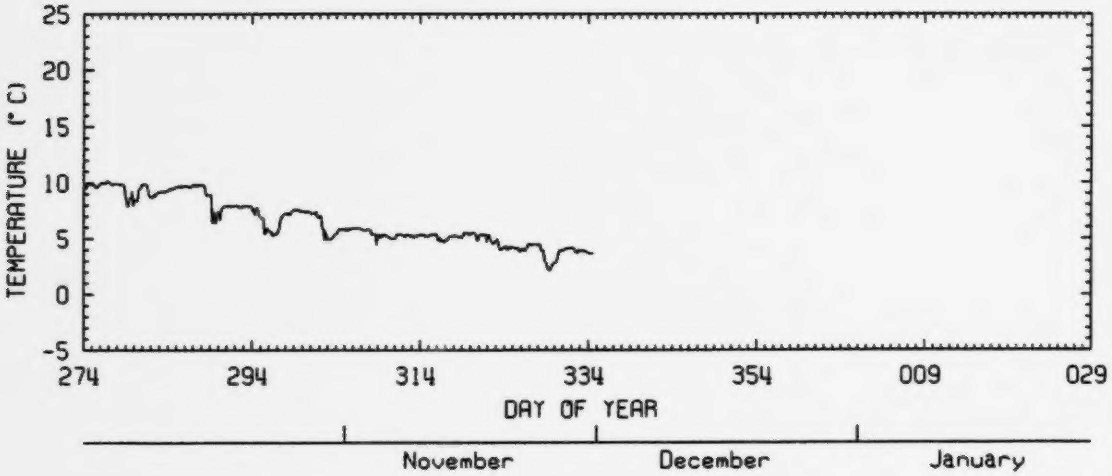
LATITUDE
LONGITUDE
BRISTOL'S HOPE





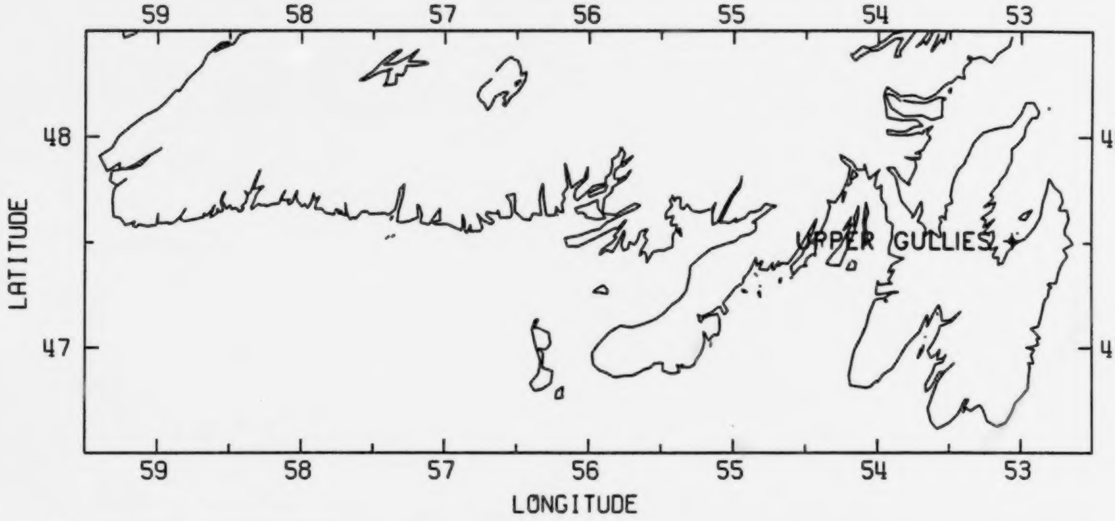
Start: 3-JUN-2002 End: 30-NOV-2002 Inst. S/N: 8957

THERMOGRAPH DATA SUMMARY: UPPER GULLIES (106) 2002

STATION NAME:	UPPER GULLIES
STATION NUMBER:	106
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003287
LATITUDE:	47.51° N
LONGITUDE:	53.06° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-MAY-2002 16:00 GMT
RECOVERY DATE/TIME:	07-OCT-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	3.80	148	5.40	150	4.60	0.49	17.9	2.0	80
JUN-2002	1.00	159	9.65	178	6.31	2.04	189.4	72.4	720
JUL-2002	3.45	206	13.65	212	9.97	1.79	308.9	184.9	744
AUG-2002	7.20	213	17.85	234	14.02	2.07	434.7	310.7	744
SEP-2002	7.50	258	14.55	248	12.51	1.23	375.3	255.3	720
OCT-2002	10.70	277	11.60	276	11.15	0.20	78.1	50.1	161
T.PERIOD	1.00	159	17.85	234	10.59	3.44	1404.3	875.4	3169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LATITUDE
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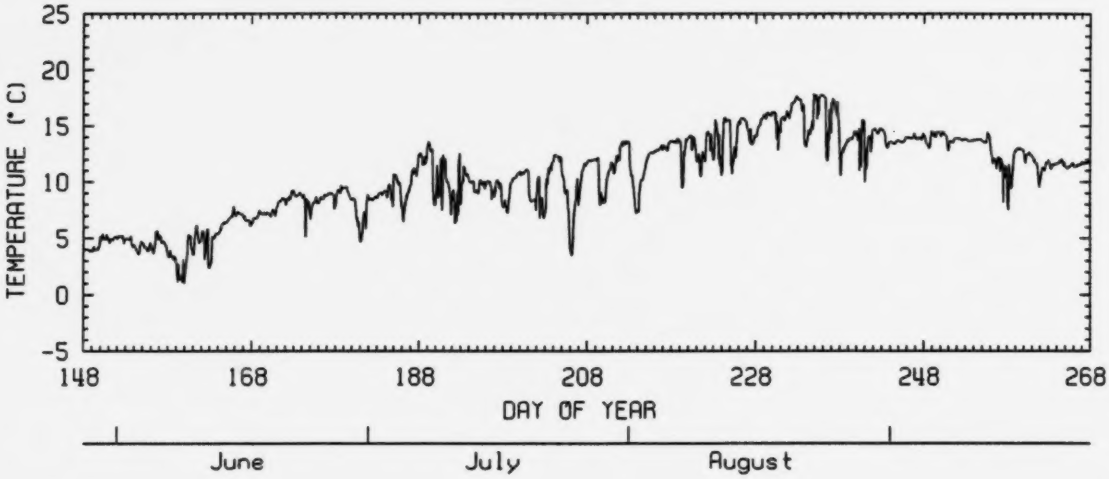
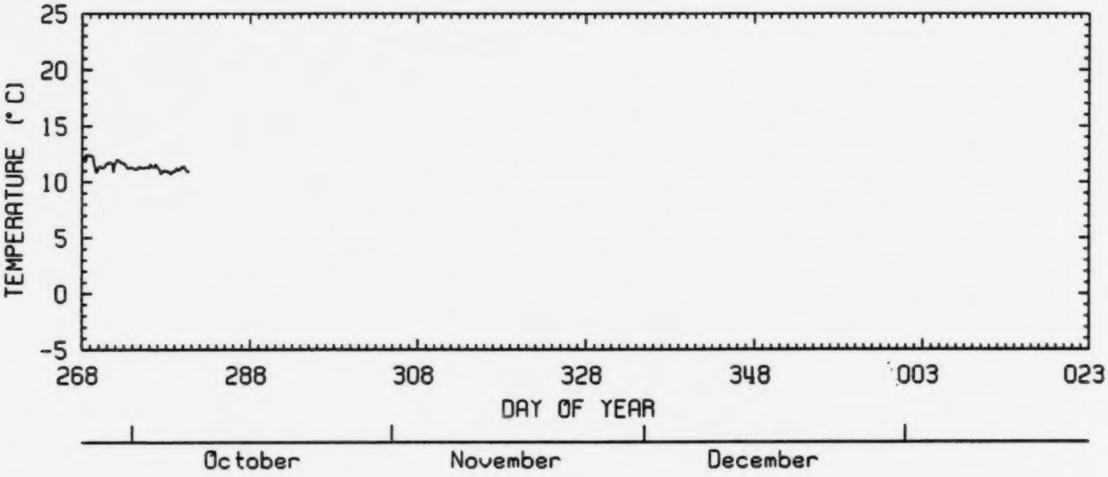
UPPER GULLIES





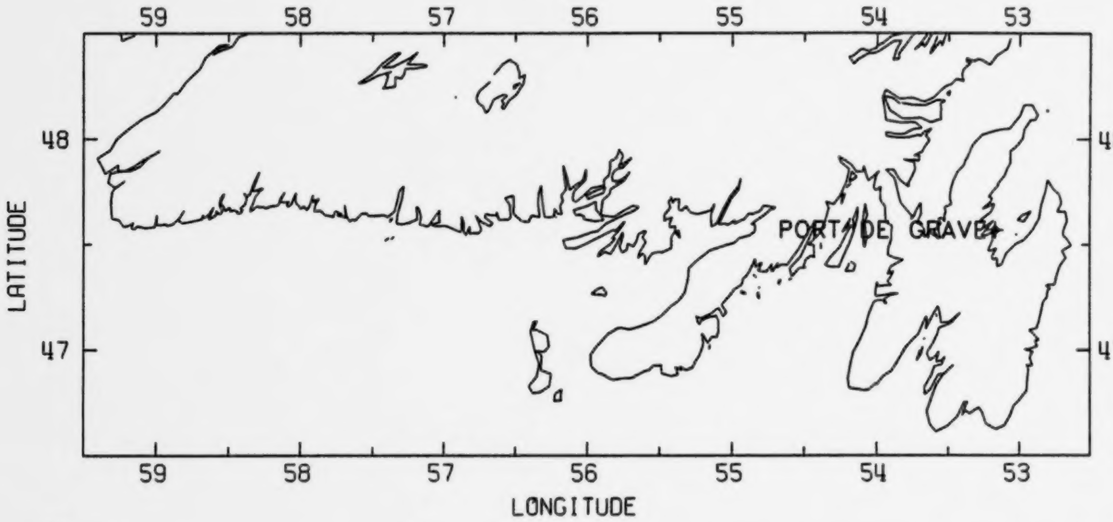
Start:28-MAY-2002 End: 7-OCT-2002 Inst. S/N:3287

THERMOGRAPH DATA SUMMARY: PORT DE GRAVE (215) 2002

STATION NAME:	PORT DE GRAVE
STATION NUMBER:	215
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005459
LATITUDE:	47.57° N
LONGITUDE:	53.17° W
INSTRUMENT DEPTH:	27 m
WATER DEPTH:	28 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUN-2002 13:00 GMT
RECOVERY DATE/TIME:	29-AUG-2002 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	-1.30	179	2.60	176	0.13	1.27	4.1	0.0	131
JUL-2002	-1.20	201	5.30	198	0.56	1.67	27.1	0.2	744
AUG-2002	-0.95	218	6.90	231	2.07	1.86	63.6	3.6	683
T.PERIOD	-1.30	179	6.90	231	1.19	1.90	94.7	3.8	1558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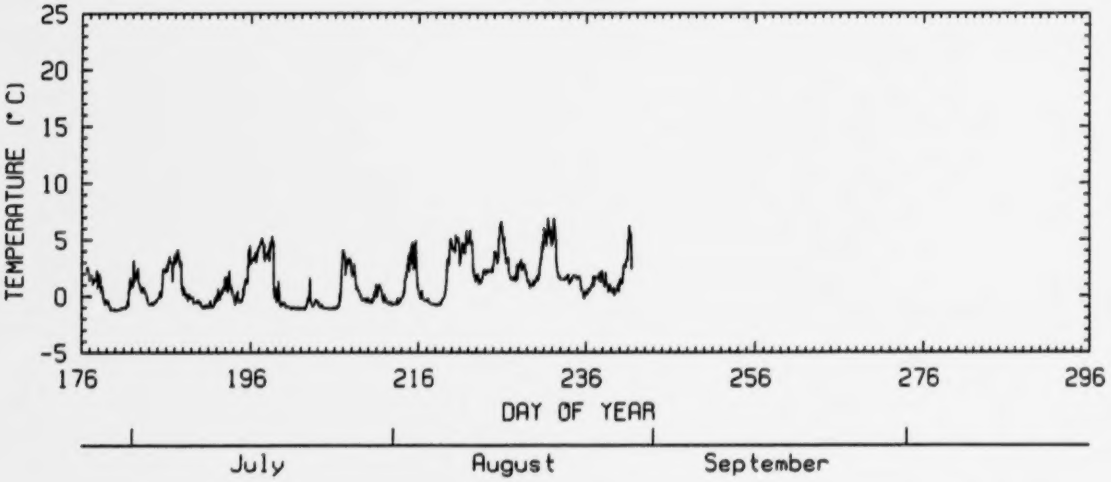
LATITUDE
LONGITUDE
PORT DE GRAVE



Start: 25-JUN-2002   End: 29-AUG-2002   Inst. S/N:5459

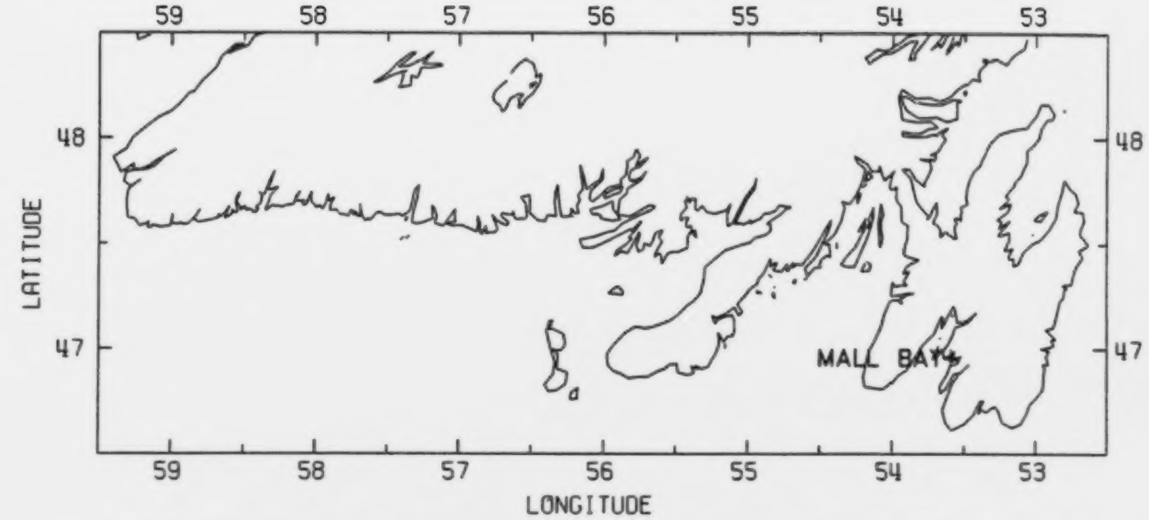
Appendix 10. Times Series Plots and Monthly Statistics from Unit Area 3Lq

THERMOGRAPH DATA SUMMARY: MALL BAY (221) 2002

STATION NAME:	MALL BAY
STATION NUMBER:	221
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007938
LATITUDE:	46.96° N
LONGITUDE:	53.59° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	21 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-MAY-2002 12:00 GMT
RECOVERY DATE/TIME:	01-NOV-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	1.35	121	6.25	151	3.29	1.23	101.2	7.5	732
JUN-2002	1.00	163	9.45	178	5.79	2.21	173.8	61.6	720
JUL-2002	1.35	198	14.85	212	8.38	3.55	259.9	138.5	744
AUG-2002	2.75	214	18.10	235	11.04	3.62	342.2	218.4	744
SEP-2002	5.70	244	15.05	249	12.07	1.99	362.0	242.0	720
OCT-2002	5.60	298	11.10	276	9.36	1.37	290.2	166.2	744
NOV-2002	6.90	305	7.00	305	6.95	0.02	7.0	3.0	13
T.PERIOD	1.00	163	18.10	235	8.33	3.91	1536.3	837.2	4417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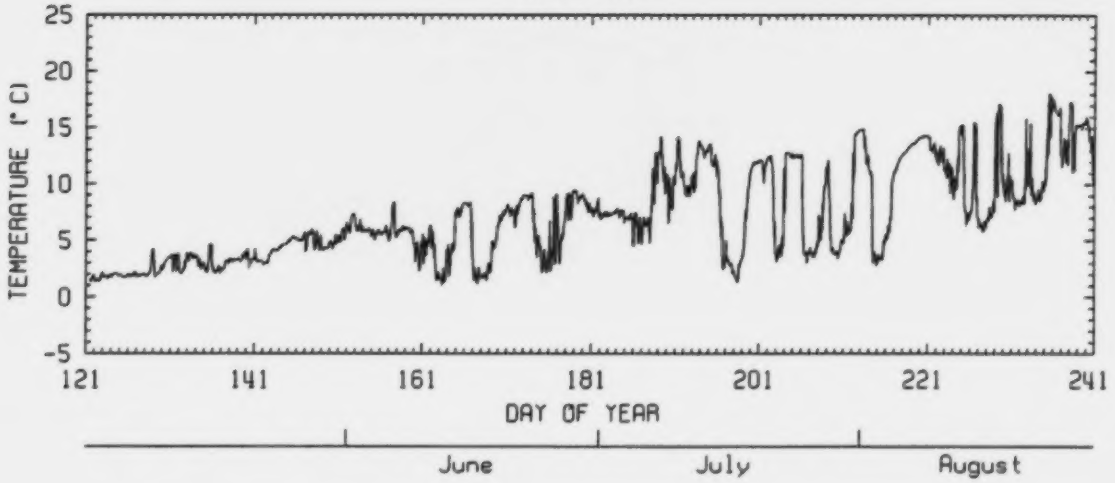
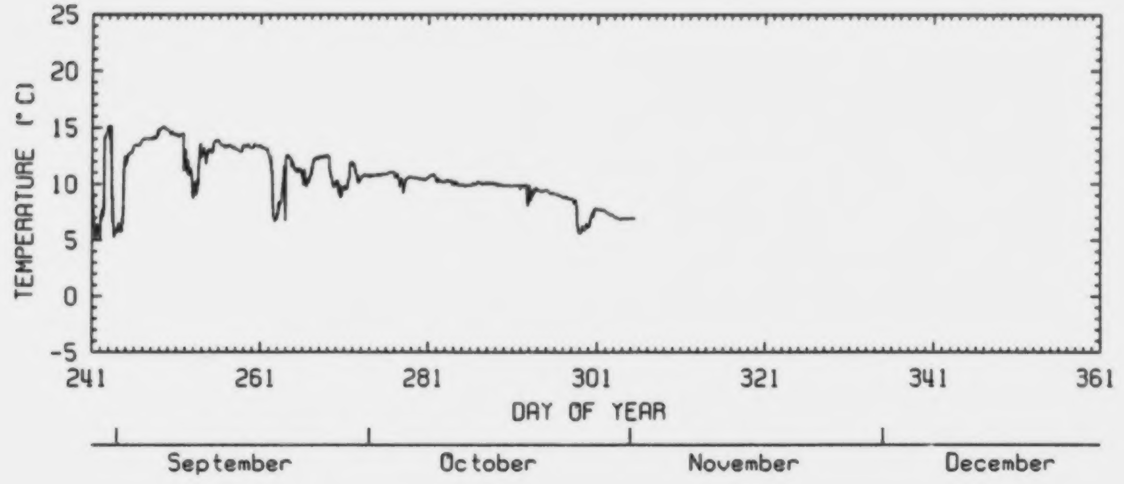
LATITUDE
MALL BAY
LONGITUDE





Start: 1-MAY-2002 End: 1-NOV-2002 Inst. S/N:7938

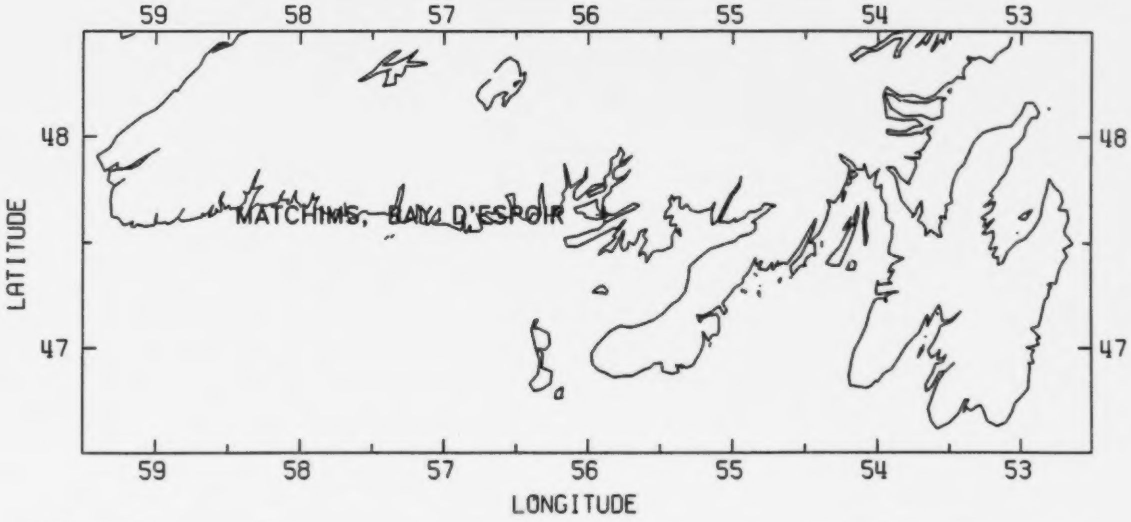
Appendix 11. Time Series Plots and Monthly Statistics from Unit Area 3PSa

THERMOGRAPH DATA SUMMARY: MATCHIMS, BAY D'ESPOIR (272) 2002

STATION NAME:	MATCHIMS, BAY D'ESPOIR
STATION NUMBER:	272
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007930
LATITUDE:	47.63° N
LONGITUDE:	55.89° W
INSTRUMENT DEPTH:	6 m
WATER DEPTH:	75 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-NOV-2001 16:00 GMT
RECOVERY DATE/TIME:	18-APR-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	6.35	333	7.95	321	7.06	0.42	99.3	43.3	320
DEC-2001	4.00	363	6.55	335	4.87	0.71	151.0	27.0	744
JAN-2002	0.80	28	4.15	1	2.24	0.73	69.4	0.0	744
FEB-2002	0.25	40	1.40	33	0.78	0.23	21.9	0.0	671
MAR-2002	-0.05	85	1.30	60	0.55	0.30	17.2	0.0	744
APR-2002	0.35	91	2.15	105	1.11	0.48	20.1	0.0	427
T.PERIOD	-0.05	85	7.95	321	2.45	2.19	378.9	70.3	3650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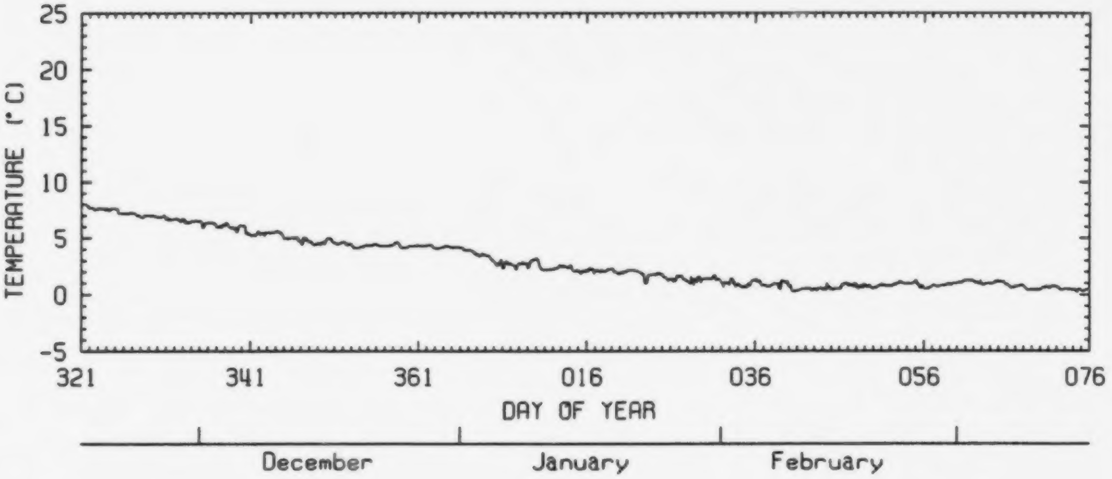
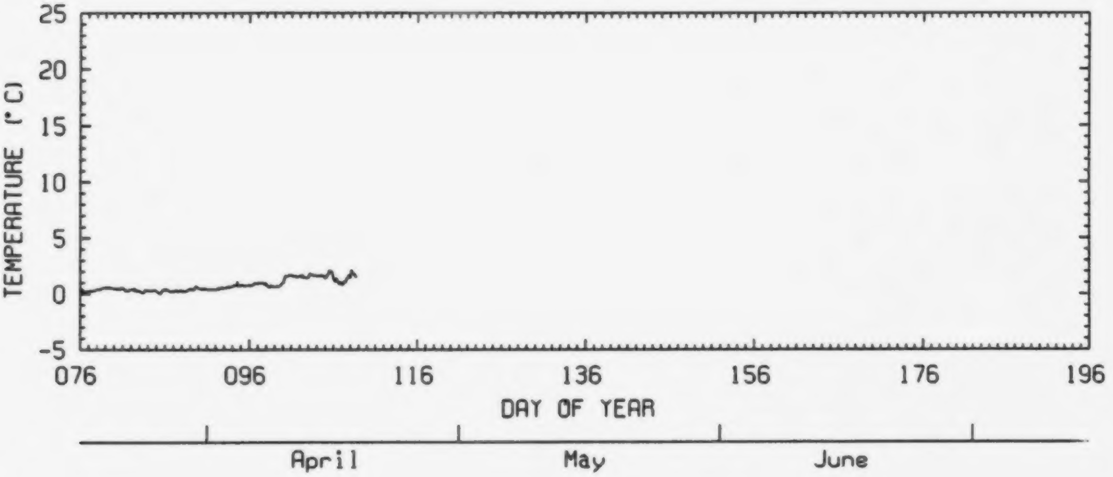
LATITUDE
LONGITUDE
MATCHIMS, BAY D'ESPOIR





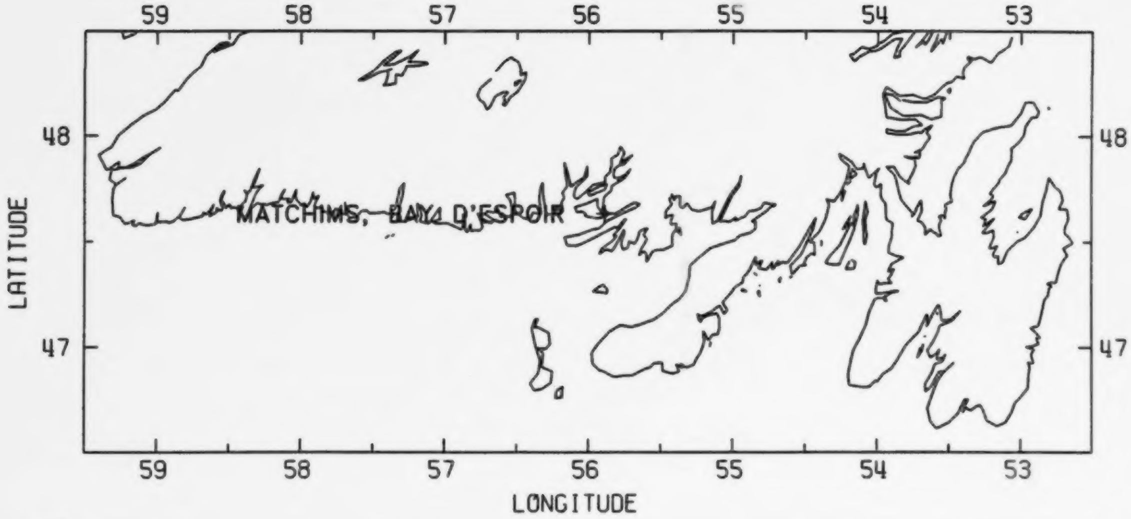
Start: 17-NOV-2001 End: 18-APR-2002 Inst. S/N: 7930

THERMOGRAPH DATA SUMMARY: MATCHIMS, BAY D'ESPOIR (272) 2002

STATION NAME:	MATCHIMS, BAY D'ESPOIR
STATION NUMBER:	272
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A0B
LATITUDE:	47.63° N
LONGITUDE:	55.89° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	75 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-NOV-2001 16:00 GMT
RECOVERY DATE/TIME:	18-APR-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	4.55	334	7.50	321	6.35	0.64	89.7	33.7	320
DEC-2001	2.95	348	6.40	337	4.56	0.75	141.3	18.6	744
JAN-2002	0.25	21	3.80	1	1.84	0.75	57.0	0.0	744
FEB-2002	-0.65	36	1.50	48	0.64	0.40	17.9	0.0	672
MAR-2002	-0.55	68	1.65	61	0.64	0.41	19.8	0.0	744
APR-2002	0.70	93	3.80	106	2.05	0.71	37.0	0.0	427
T.PERIOD	-0.65	36	7.50	321	2.35	2.00	362.5	52.3	3651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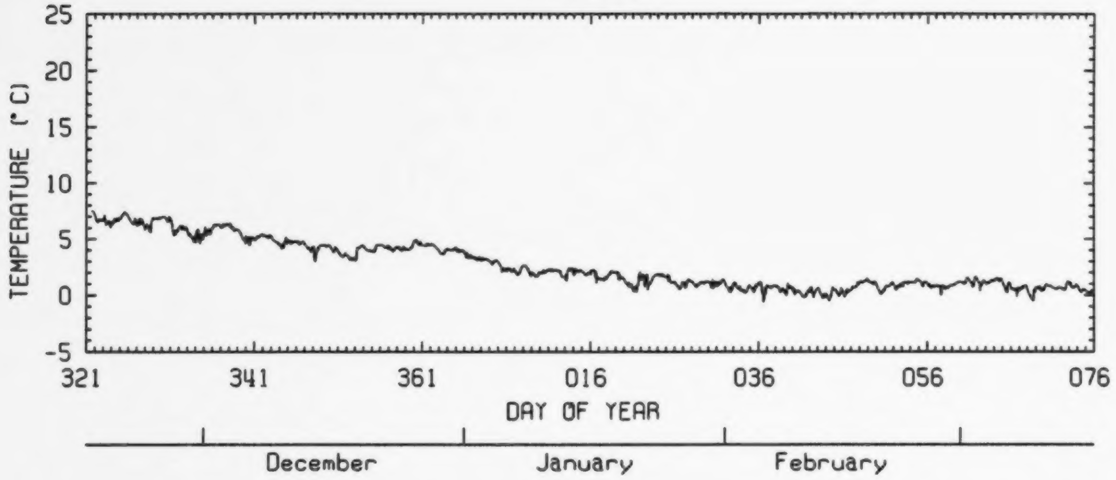
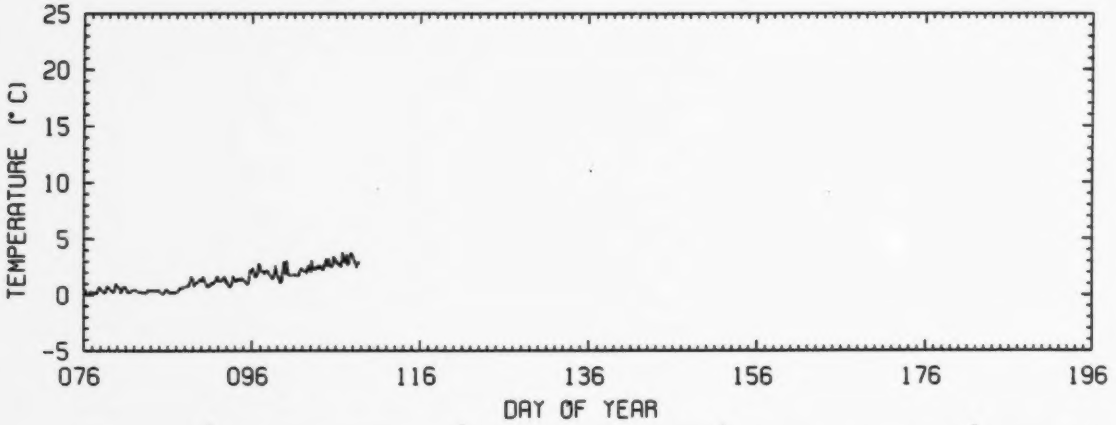
LATITUDE
LONGITUDE
MATCHIMS, BAY D'ESPOIR





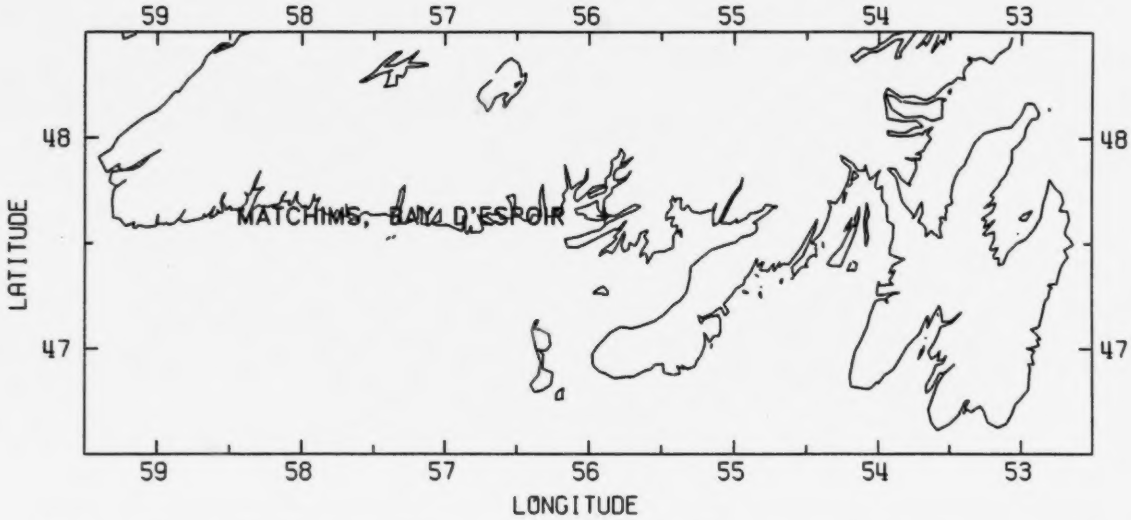
Start:17-NOV-2001 End:18-APR-2002 Inst. S/N:8A0B

THERMOGRAPH DATA SUMMARY: MATCHIMS, BAY D'ESPOIR (272) 2002

STATION NAME:	MATCHIMS, BAY D'ESPOIR
STATION NUMBER:	272
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006646
LATITUDE:	47.63° N
LONGITUDE:	55.89° W
INSTRUMENT DEPTH:	23 m
WATER DEPTH:	75 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-NOV-2001 16:00 GMT
RECOVERY DATE/TIME:	18-APR-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	6.05	327	7.90	321	6.76	0.44	95.4	39.4	320
DEC-2001	4.00	364	6.40	335	5.04	0.76	156.2	32.2	744
JAN-2002	1.20	30	4.05	1	2.48	0.73	77.0	0.0	744
FEB-2002	0.45	40	1.40	33	0.91	0.27	10.9	0.0	283
T.PERIOD	0.45	40	7.90	321	3.83	2.02	339.4	71.6	2091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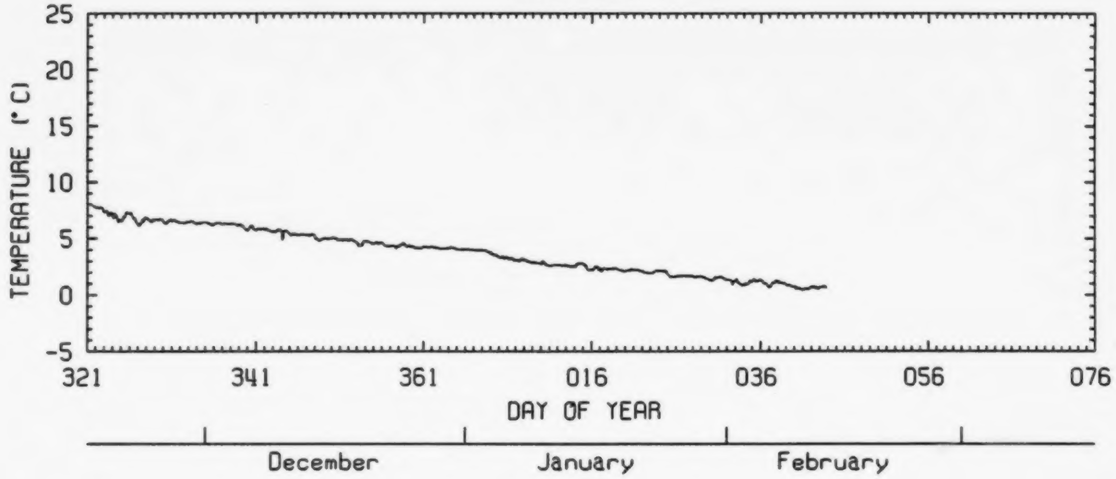
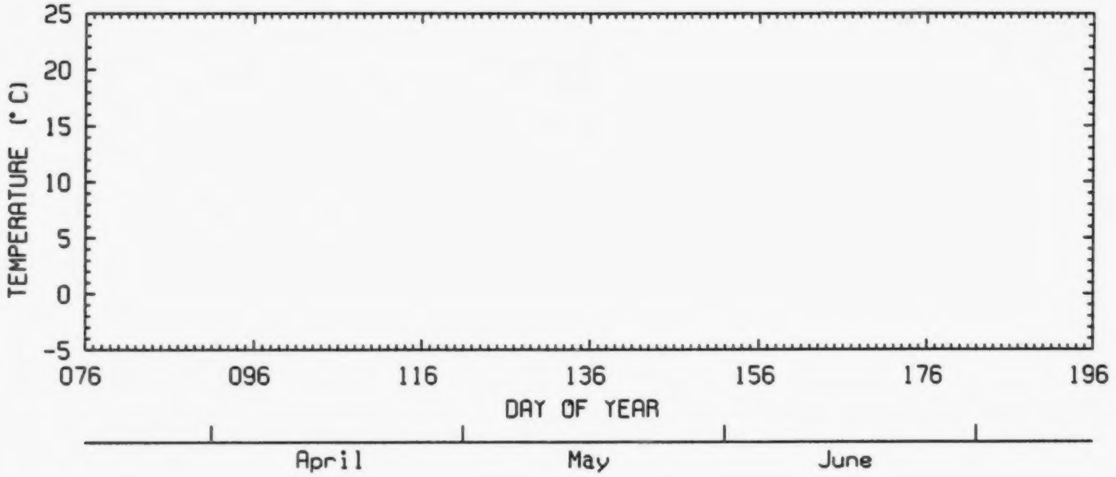
LATITUDE
MATCHIMS, BAY D'ESPOIR
LONGITUDE





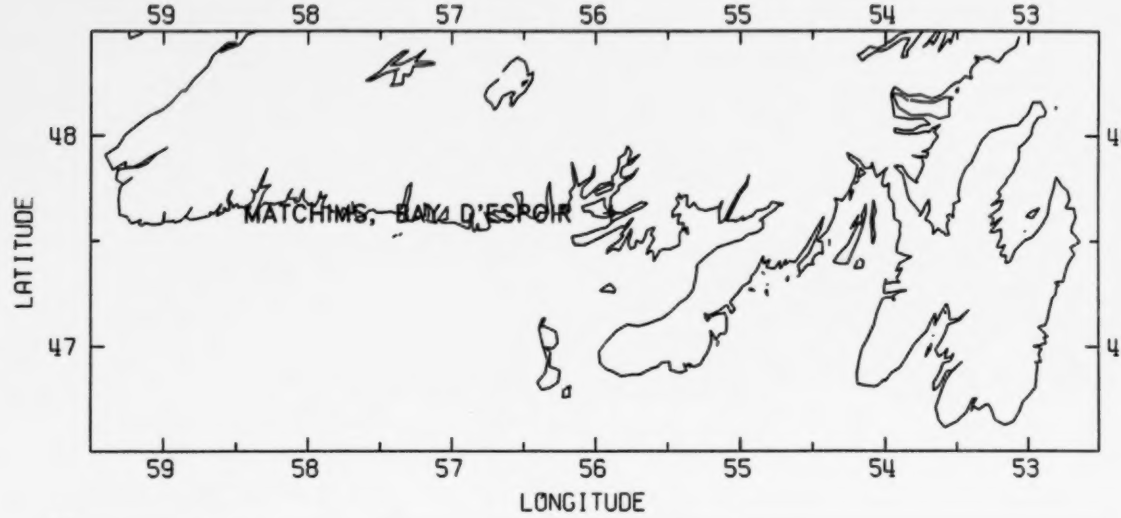
Start:17-NOV-2001 End:18-APR-2002 Inst. S/N:6646

THERMOGRAPH DATA SUMMARY: MATCHIMS, BAY D'ESPOIR (272) 2002

STATION NAME:	MATCHIMS, BAY D'ESPOIR
STATION NUMBER:	272
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008955
LATITUDE:	47.63° N
LONGITUDE:	55.89° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	75 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-NOV-2001 16:00 GMT
RECOVERY DATE/TIME:	18-APR-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	6.20	334	8.10	321	7.12	0.44	100.3	44.3	320
DEC-2001	4.15	365	6.65	335	5.16	0.74	159.9	35.9	744
JAN-2002	1.40	30	4.20	1	2.61	0.72	80.9	0.2	744
FEB-2002	0.45	46	1.70	36	0.98	0.23	27.3	0.0	672
MAR-2002	0.25	86	1.40	60	0.70	0.27	21.7	0.0	744
APR-2002	0.50	91	1.70	103	0.89	0.29	16.0	0.0	427
T.PERIOD	0.25	86	8.10	321	2.63	2.23	406.2	80.4	3651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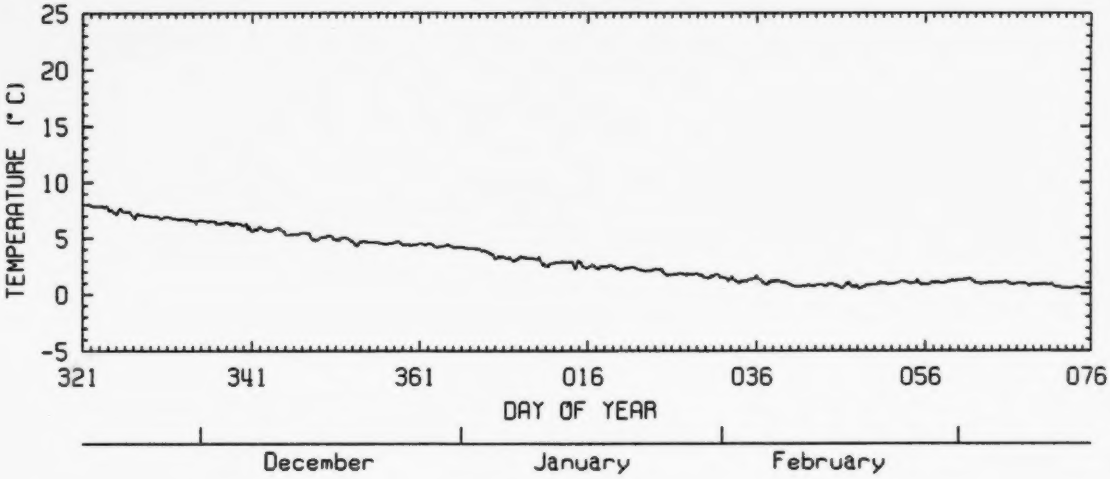
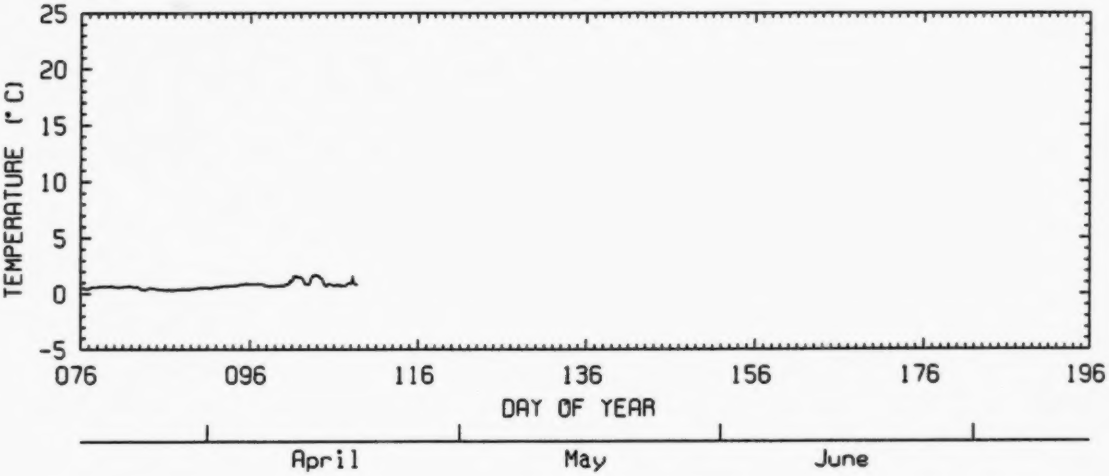
LONGITUDE
MATCHIMS, BAY D'ESPOIR





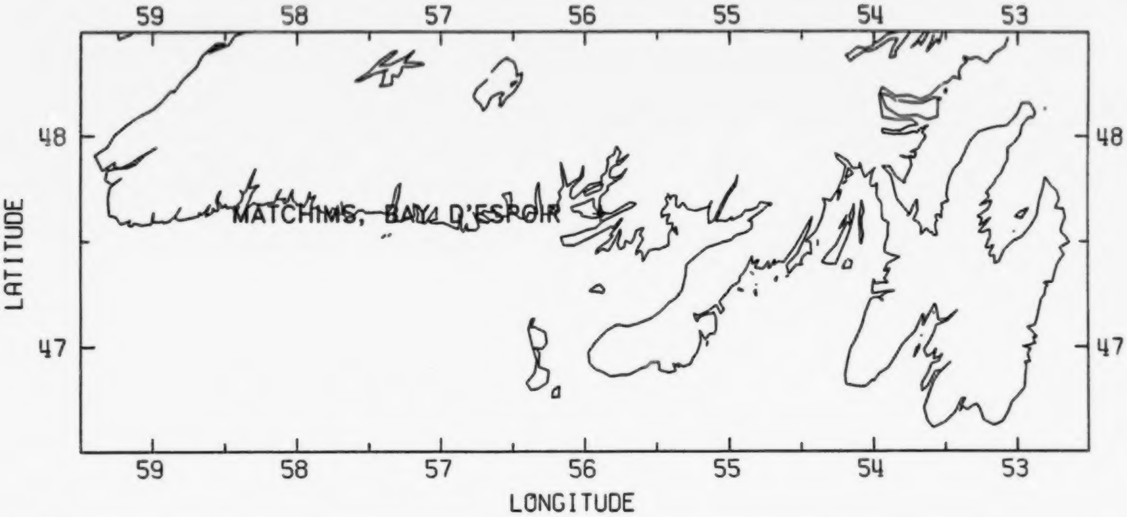
Start: 17-NOV-2001 End: 18-APR-2002 Inst. S/N:8955

THERMOGRAPH DATA SUMMARY: MATCHIMS, BAY D'ESPOIR (272) 2002

STATION NAME:	MATCHIMS, BAY D'ESPOIR
STATION NUMBER:	272
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003263
LATITUDE:	47.63° N
LONGITUDE:	55.89° W
INSTRUMENT DEPTH:	30 m
WATER DEPTH:	75 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-NOV-2001 16:00 GMT
RECOVERY DATE/TIME:	18-APR-2002 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2001	5.50	327	8.00	321	6.71	0.49	94.8	38.8	320
DEC-2001	3.55	357	6.50	335	5.10	0.78	158.0	34.0	744
JAN-2002	1.30	30	4.15	1	2.56	0.75	79.4	0.2	744
FEB-2002	0.25	47	1.50	35	0.83	0.26	23.3	0.0	672
MAR-2002	0.05	83	1.15	61	0.48	0.25	14.8	0.0	744
APR-2002	0.35	91	1.00	101	0.48	0.09	8.6	0.0	427
T.PERIOD	0.05	83	8.00	321	2.46	2.24	379.0	73.0	3651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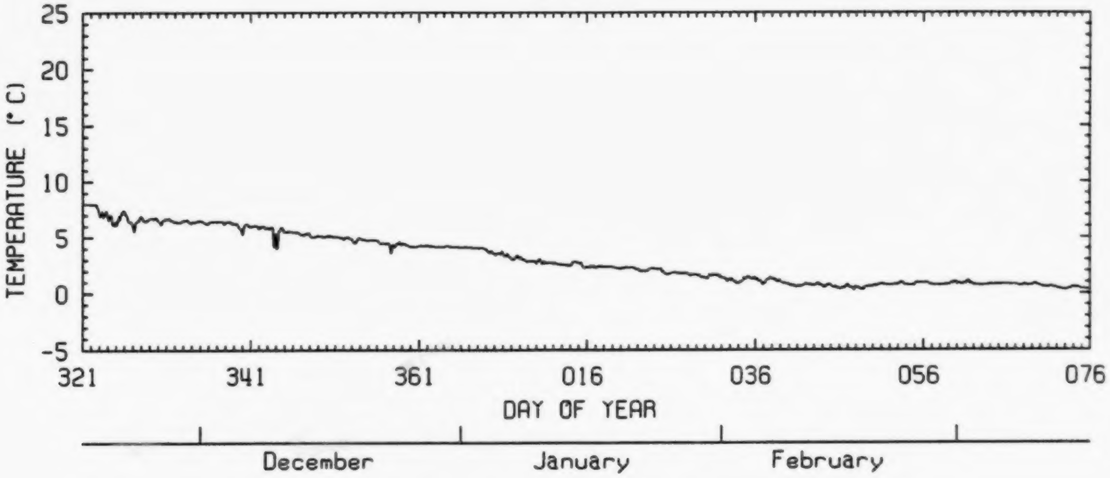
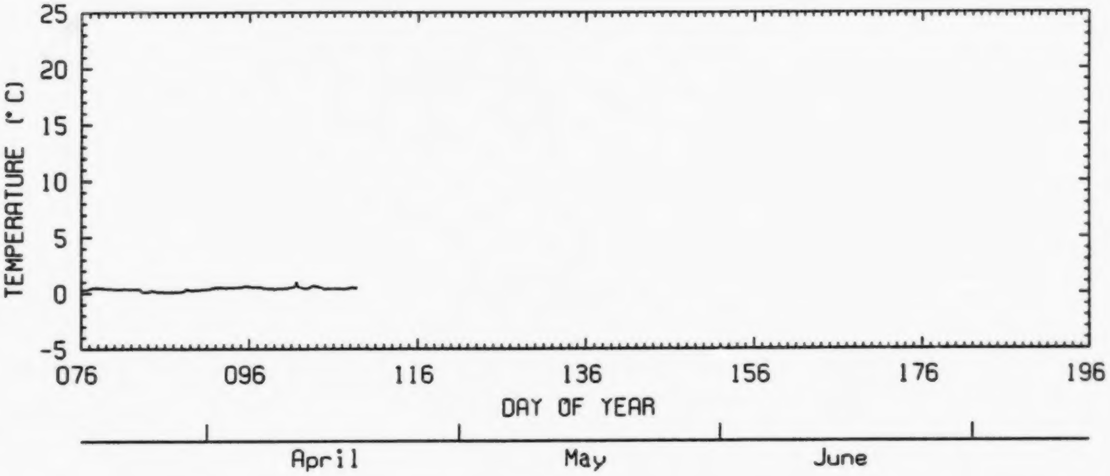
MATCHIMS, BAY D'ESPOIR





Start:17-NOV-2001 End:18-APR-2002 Inst. S/N:3263

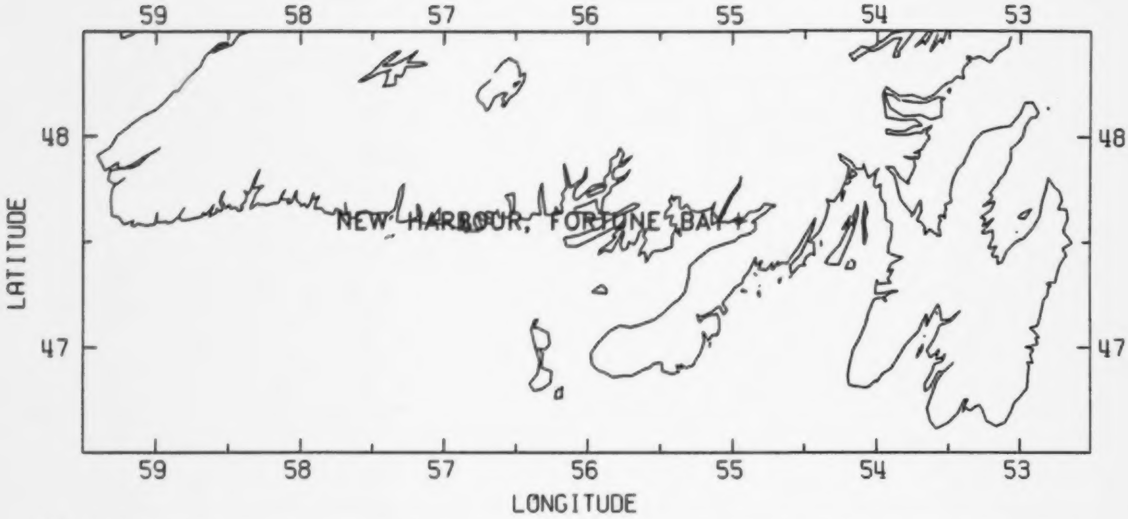
Appendix 12. Time Series Plots and Monthly Statistics from Unit Area 3PSb

THERMOGRAPH DATA SUMMARY: NEW HARBOUR, FORTUNE BAY (255) 2002

STATION NAME:	NEW HARBOUR, FORTUNE BAY
STATION NUMBER:	255
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A09
LATITUDE:	47.60° N
LONGITUDE:	54.96° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-MAR-2002 12:00 GMT
RECOVERY DATE/TIME:	30-OCT-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAR-2002	0.60	89	0.75	89	0.63	0.04	1.3	0.0	36
APR-2002	0.50	92	2.95	112	1.57	0.58	47.2	0.0	720
MAY-2002	1.65	121	6.95	150	3.65	1.25	113.0	11.3	744
JUN-2002	5.75	152	10.05	178	7.98	1.27	239.3	119.3	720
JUL-2002	9.90	182	16.35	211	13.28	1.53	411.8	287.8	744
AUG-2002	14.70	215	19.70	232	17.08	1.21	529.6	405.6	744
SEP-2002	11.95	273	16.80	244	14.31	1.30	429.2	309.2	720
OCT-2002	3.20	303	12.30	274	9.90	1.78	295.3	175.6	713
T.PERIOD	0.50	92	19.70	232	9.64	5.48	2066.7	1308.8	5141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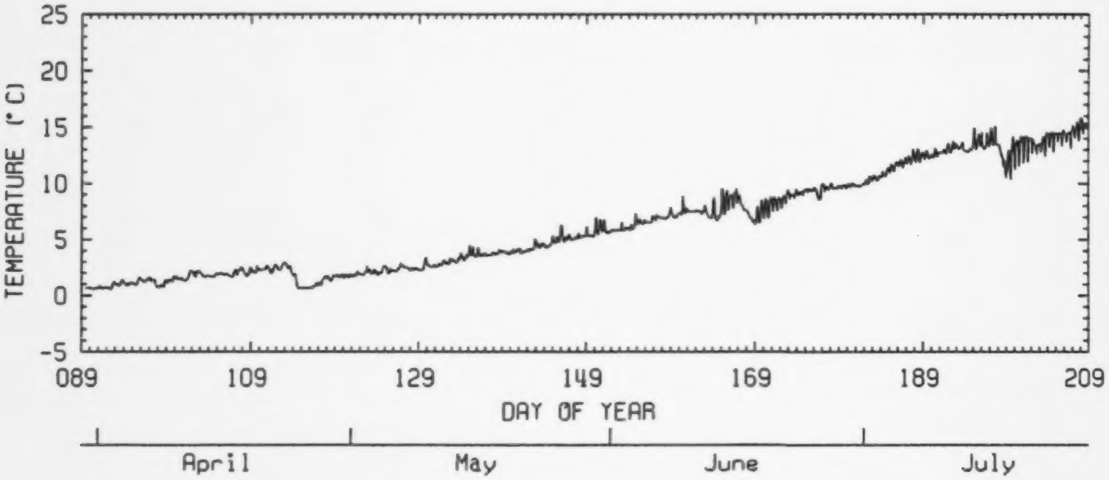
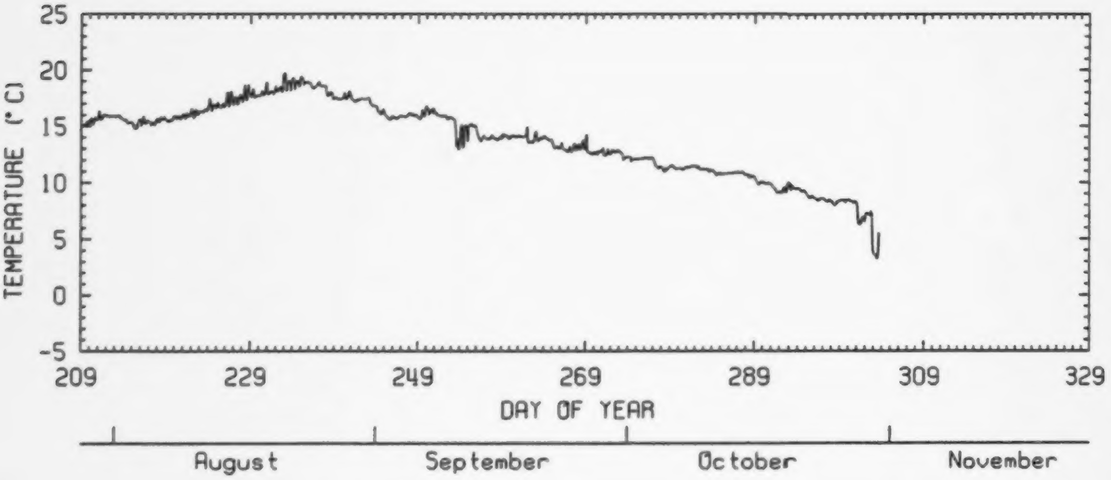
NEW HARBOUR, FORTUNE BAY





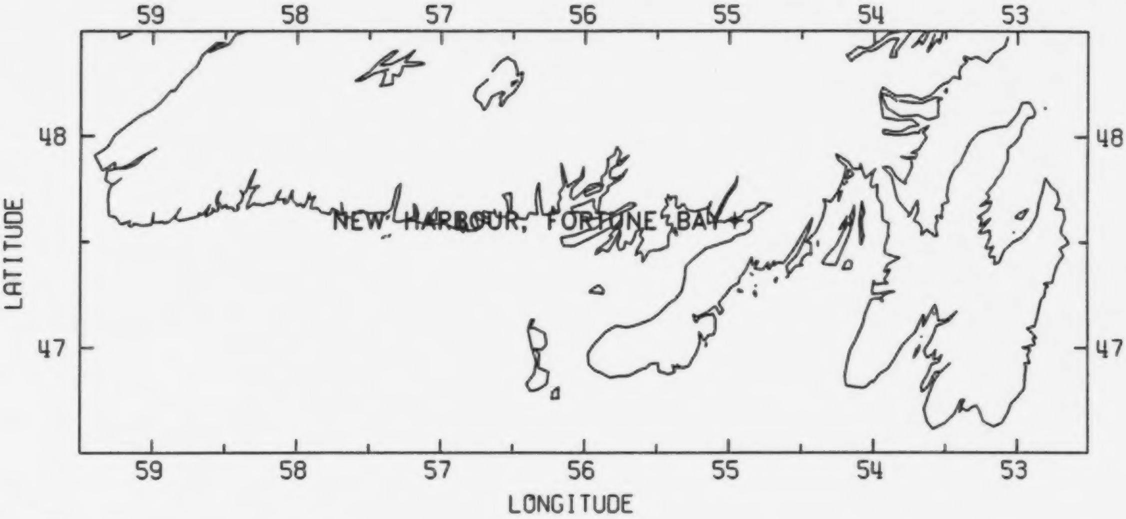
Start:30-MAR-2002 End:30-OCT-2002 Inst. S/N:8A09

THERMOGRAPH DATA SUMMARY: NEW HARBOUR, FORTUNE BAY (255) 2002

STATION NAME:	NEW HARBOUR, FORTUNE BAY
STATION NUMBER:	255
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003808
LATITUDE:	47.60° N
LONGITUDE:	54.96° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-MAR-2002 12:00 GMT
RECOVERY DATE/TIME:	30-OCT-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAR-2002	0.70	90	1.00	89	0.76	0.06	1.5	0.0	36
APR-2002	0.60	92	3.00	112	1.69	0.56	50.6	0.0	720
MAY-2002	1.70	121	7.20	150	3.76	1.27	116.5	12.8	744
JUN-2002	5.80	152	10.20	178	8.14	1.28	244.1	124.1	720
JUL-2002	10.00	182	16.50	211	13.49	1.50	418.3	294.3	744
AUG-2002	14.80	215	19.80	232	17.23	1.22	534.1	410.1	744
SEP-2002	12.00	273	17.00	249	14.47	1.29	434.0	314.0	720
OCT-2002	3.10	303	12.40	274	10.01	1.80	298.5	178.8	713
T.PERIOD	0.60	92	19.80	232	9.79	5.50	2097.7	1334.1	5141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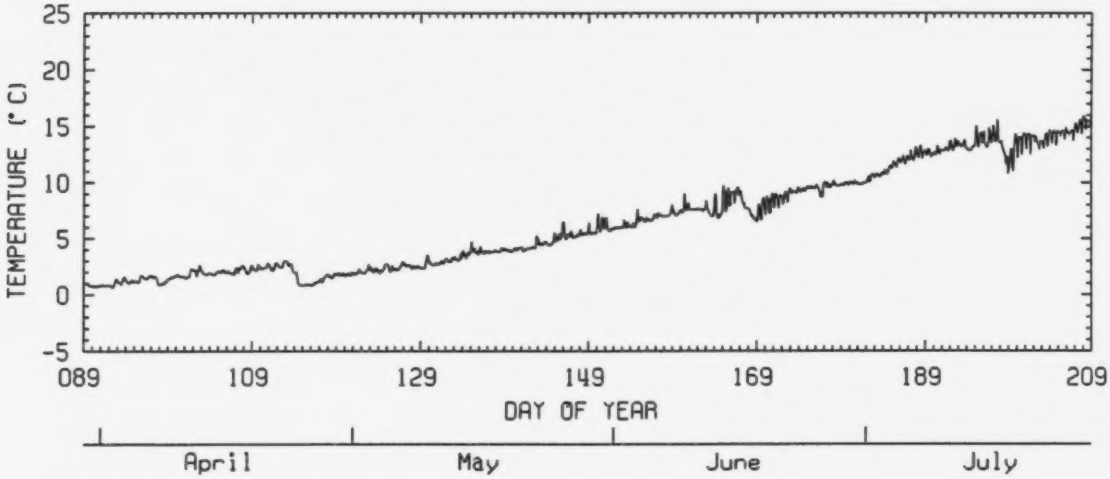
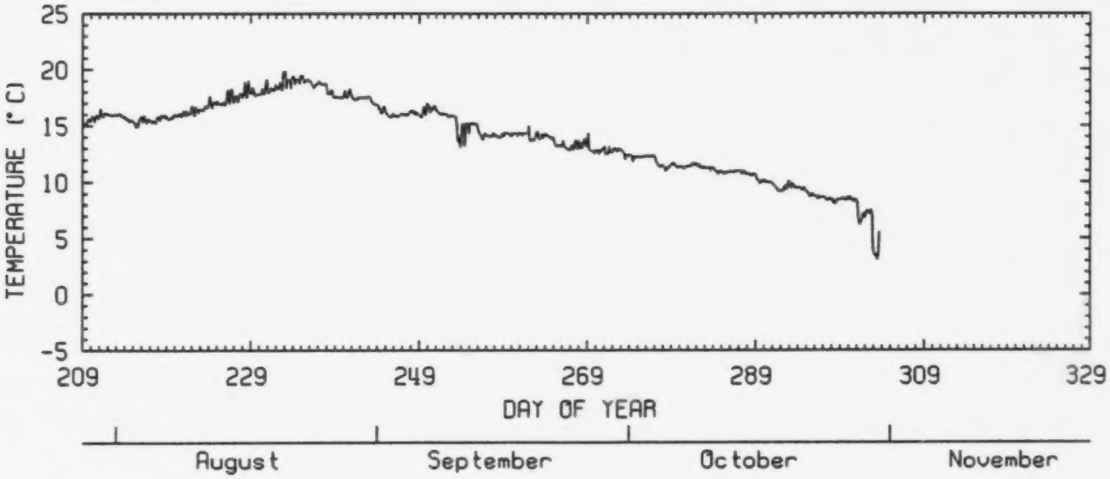
NEW HARBOUR, FORTUNE BAY +





Start:30-MAR-2002 End:30-OCT-2002 Inst. S/N:3808

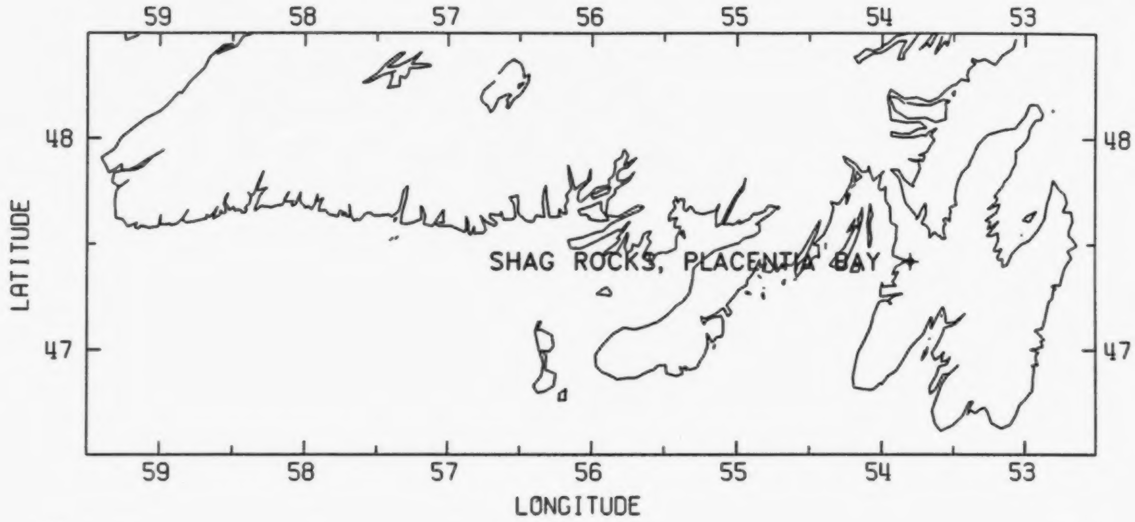
Appendix 13. Time Series Plots and Monthly Statistics from Unit Area 3PSc

THERMOGRAPH DATA SUMMARY: SHAG ROCKS, PLACENTIA BAY (111) 2002

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003266
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-SEP-2001 04:00 GMT
RECOVERY DATE/TIME:	24-APR-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
SEP-2001	10.00	264	14.05	267	13.17	0.91	131.4	91.4	236
OCT-2001	7.50	304	13.20	276	11.96	0.98	370.7	246.7	744
NOV-2001	5.85	334	10.40	328	8.46	1.03	253.9	133.9	720
DEC-2001	4.20	351	6.90	356	5.95	0.79	184.5	60.5	744
JAN-2002	0.10	31	6.30	1	3.77	1.93	117.0	20.7	744
FEB-2002	-1.10	46	0.35	32	-0.45	0.34	0.2	0.0	672
MAR-2002	-0.80	85	0.35	63	-0.20	0.27	0.8	0.0	744
APR-2002	-0.25	92	3.80	102	0.65	0.43	15.2	0.0	540
T.PERIOD	-1.10	46	14.05	267	4.91	4.78	1073.6	553.2	5144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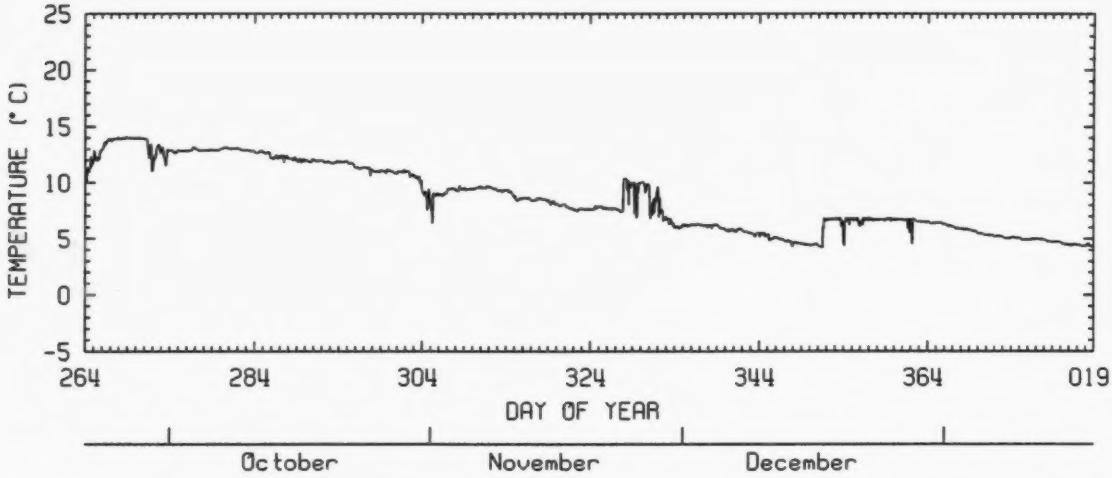
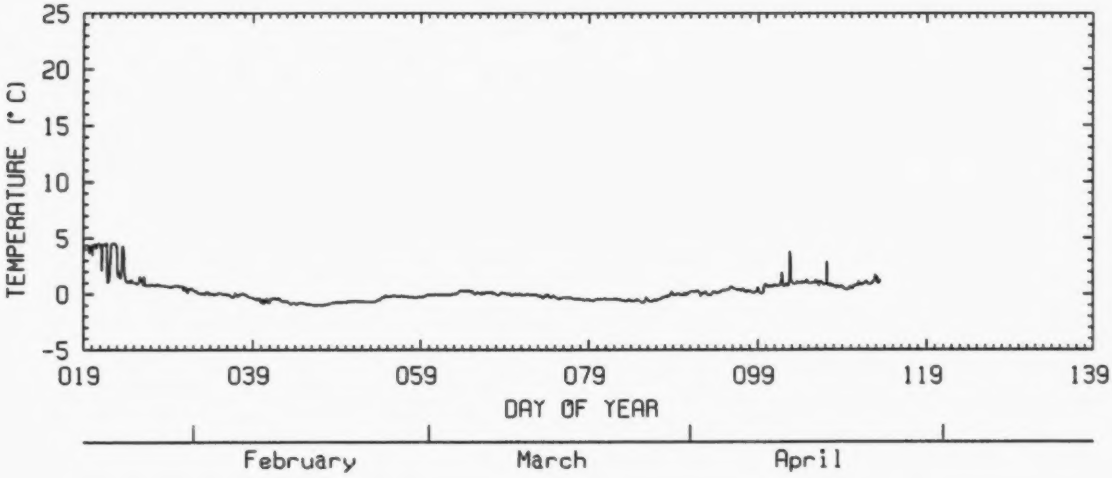
SHAG ROCKS, PLACENTIA BAY
LONGITUDE





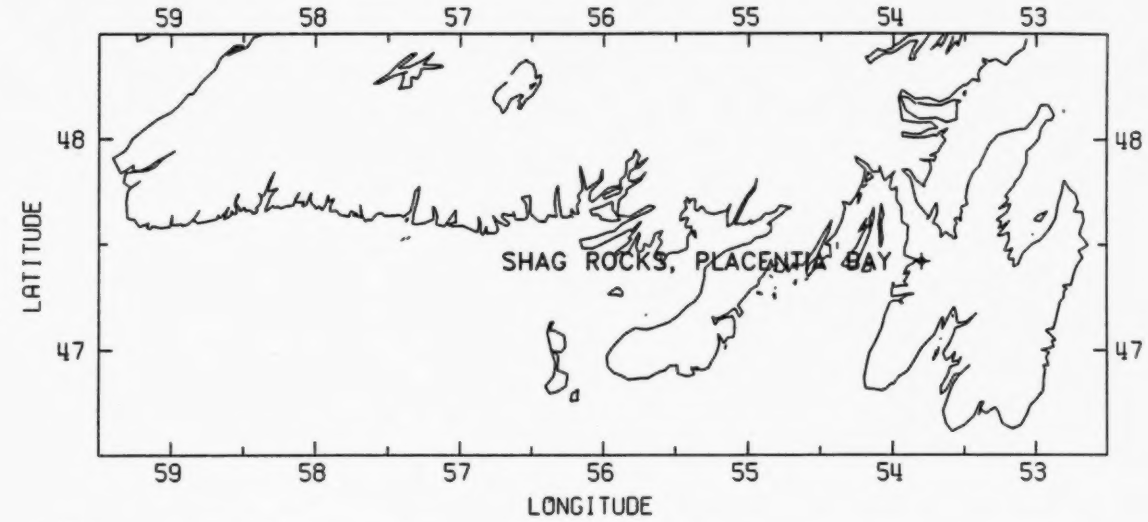
Start:21-SEP-2001 End:24-APR-2002 Inst. S/N:3266

THERMOGRAPH DATA SUMMARY: SHAG ROCKS, PLACENTIA BAY (111) 2002

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008968
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	12-JUN-2002 17:00 GMT
RECOVERY DATE/TIME:	13-OCT-2002 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	2.50	168	9.10	176	6.99	1.68	130.8	54.9	439
JUL-2002	1.25	198	14.80	211	10.79	2.42	334.3	211.3	744
AUG-2002	2.80	215	18.35	234	14.67	3.69	454.7	330.7	744
SEP-2002	4.10	244	15.90	249	13.02	1.93	390.5	270.5	720
OCT-2002	9.85	284	12.00	274	11.07	0.54	144.0	92.0	312
T.PERIOD	1.25	198	18.35	234	11.77	3.52	1454.2	959.4	2959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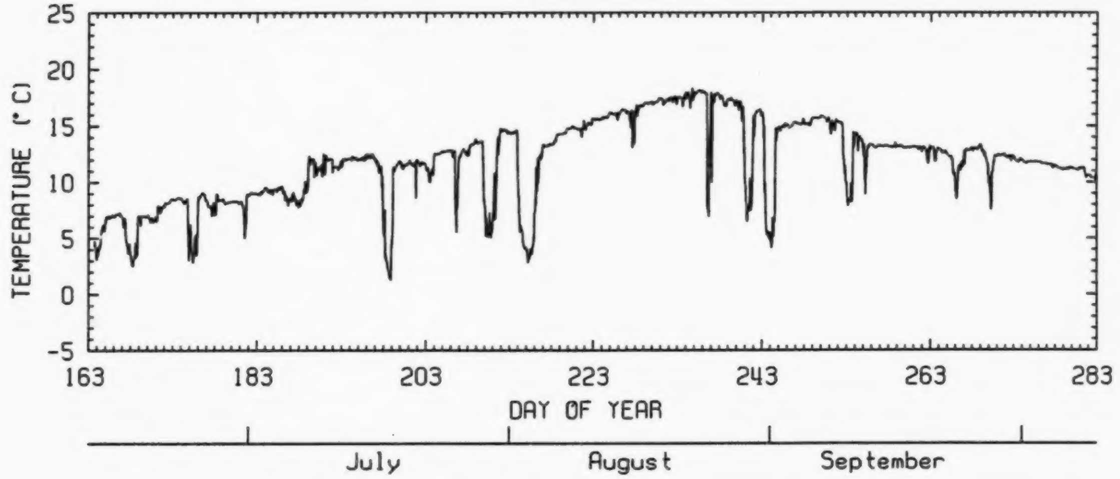
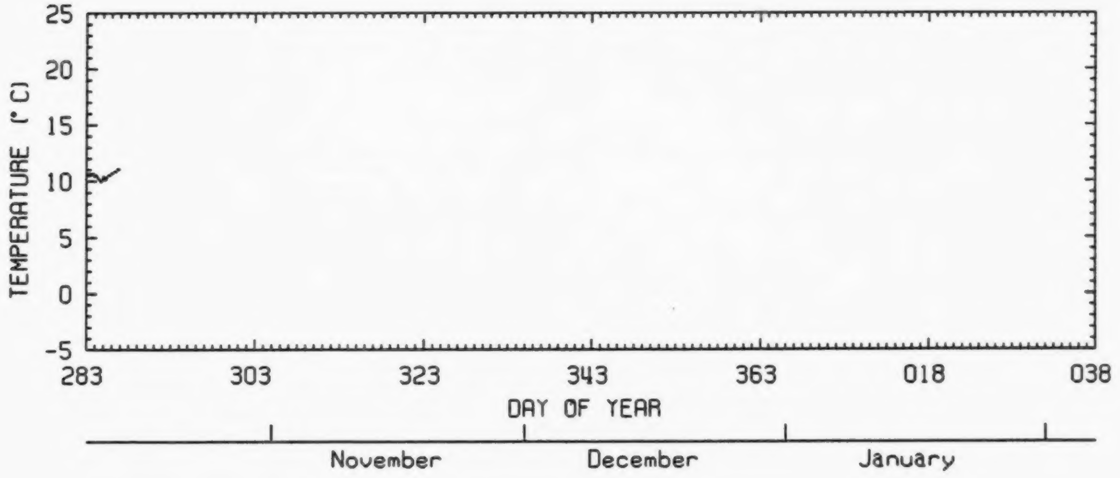




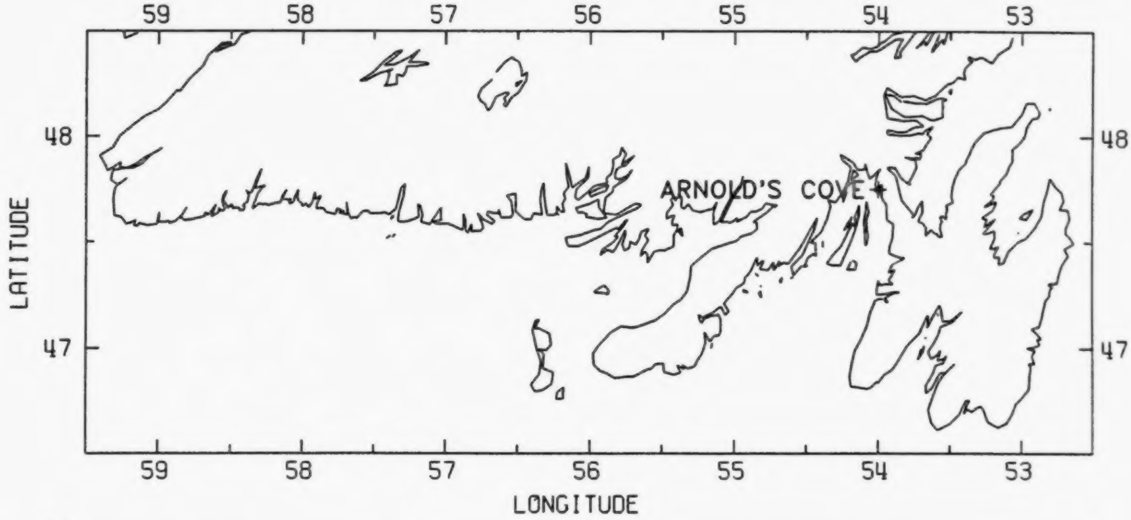
Start:12-JUN-2002 End:13-OCT-2002 Inst. S/N:8968

THERMOGRAPH DATA SUMMARY: ARNOLD'S COVE (127) 2002

STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004348
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-DEC-2001 16:00 GMT
RECOVERY DATE/TIME:	30-JUN-2002 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
DEC-2001	2.80	352	4.60	347	3.99	0.37	76.2	2.4	440
JAN-2002	-1.10	31	3.80	1	1.84	1.00	56.9	0.0	744
FEB-2002	-1.30	32	0.70	37	-0.28	0.34	0.2	0.0	672
MAR-2002	-0.80	85	0.60	63	-0.27	0.33	1.6	0.0	744
APR-2002	-0.40	109	1.60	118	0.54	0.44	16.5	0.0	720
MAY-2002	1.40	121	6.40	150	3.38	1.35	104.9	10.1	744
JUN-2002	4.60	164	10.00	173	6.83	1.64	205.0	85.0	720
T.PERIOD	-1.30	32	10.00	173	2.21	2.63	461.4	97.5	4784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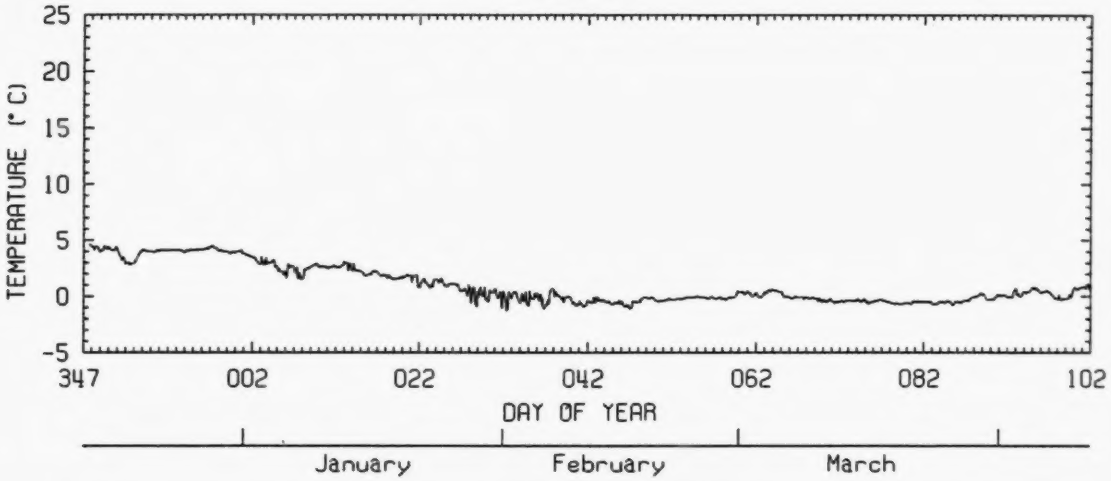
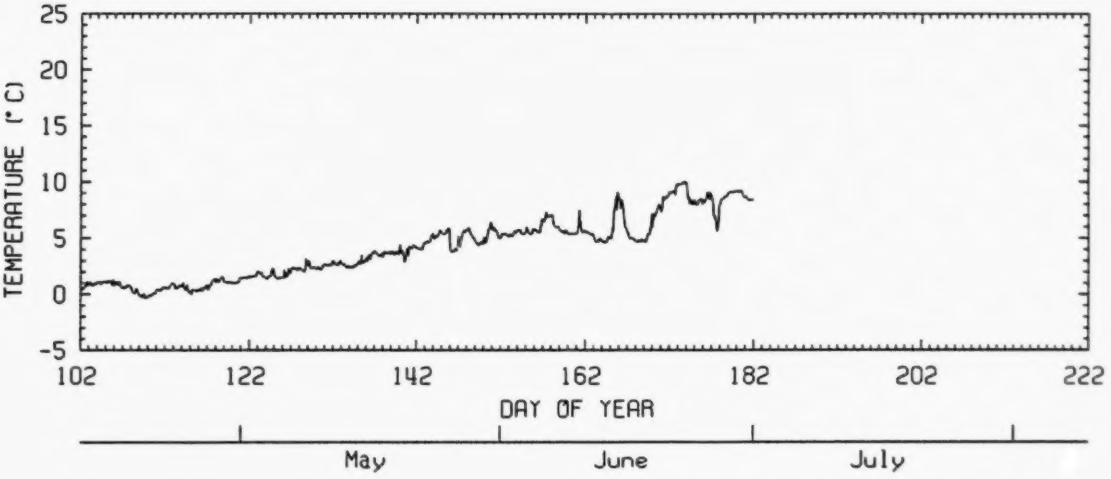




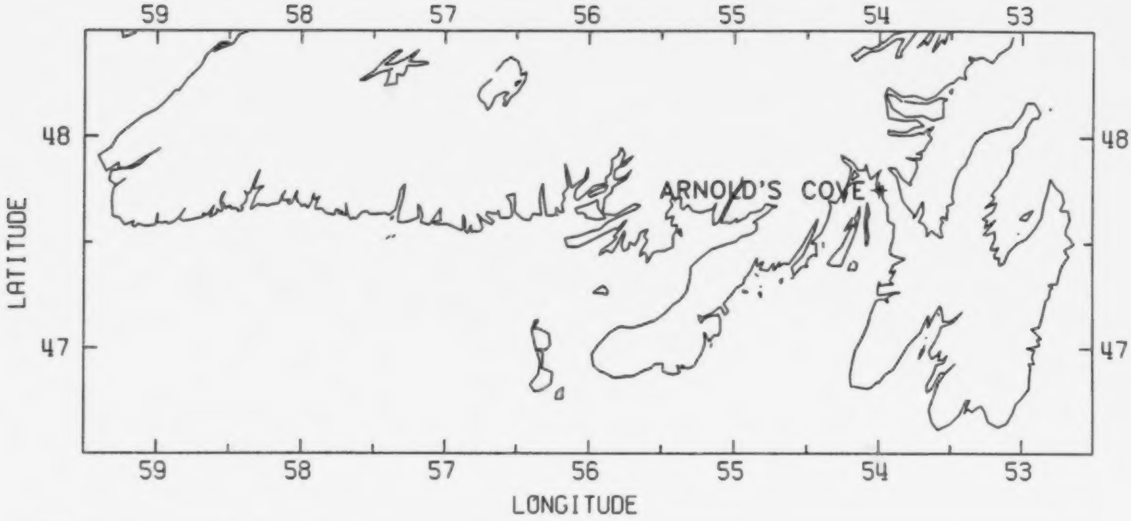
Start:13-DEC-2001 End:30-JUN-2002 Inst. S/N:4348

THERMOGRAPH DATA SUMMARY: ARNOLD'S COVE (127) 2002

STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004348
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-JUN-2002 23:00 GMT
RECOVERY DATE/TIME:	08-OCT-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	6.80	198	16.00	212	12.34	1.64	382.6	258.6	744
AUG-2002	3.30	215	18.70	235	15.31	2.91	474.8	350.8	744
SEP-2002	6.00	244	16.30	249	14.16	1.36	424.8	304.8	720
OCT-2002	10.20	277	12.50	276	11.57	0.62	92.5	60.5	180
T.PERIOD	3.30	215	18.70	235	13.76	2.42	1374.7	974.7	2388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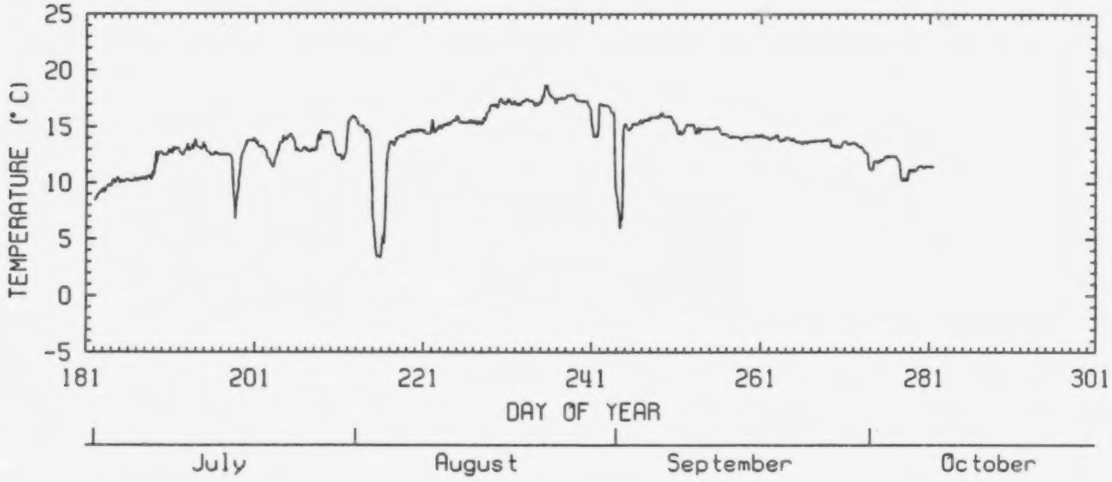


Start: 30-JUN-2002 End: 8-OCT-2002 Inst. S/N:4348

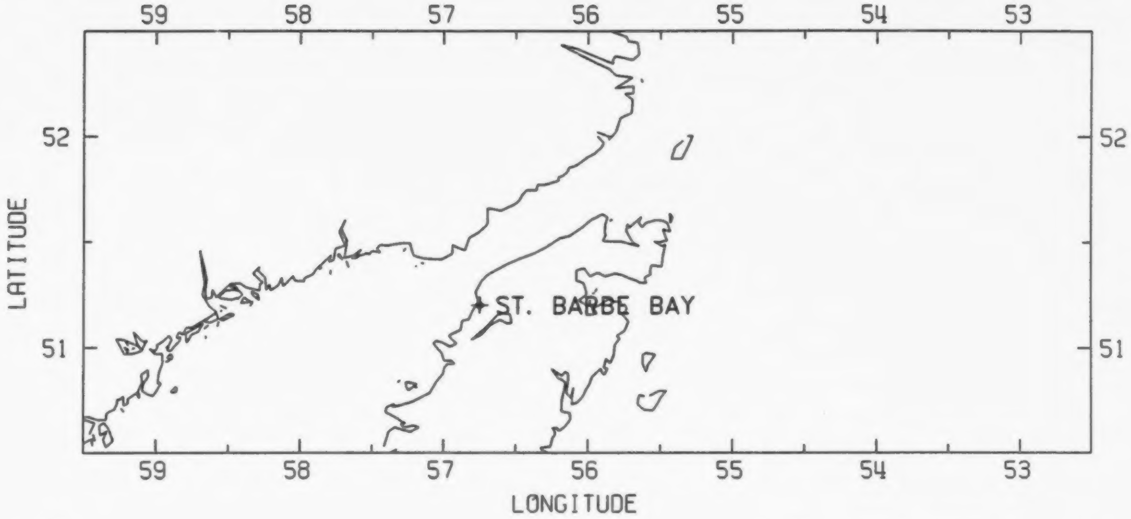
Appendix 14. Time Series Plots and Monthly Statistics from Unit Area 4Ra

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2002

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008975
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	2 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-MAY-2002 14:00 GMT
RECOVERY DATE/TIME:	03-OCT-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	4.70	151	6.55	151	5.27	0.55	5.3	1.3	10
JUN-2002	2.70	169	16.30	180	6.33	1.98	190.0	70.5	720
JUL-2002	5.30	189	19.20	205	12.03	2.37	372.8	248.8	744
AUG-2002	11.25	220	20.65	233	14.77	1.28	457.9	333.9	744
SEP-2002	6.70	273	16.90	248	11.11	3.21	333.4	213.4	720
OCT-2002	7.80	274	9.40	275	8.65	0.34	26.1	14.1	61
T.PERIOD	2.70	169	20.65	233	11.03	3.80	1385.4	881.9	2999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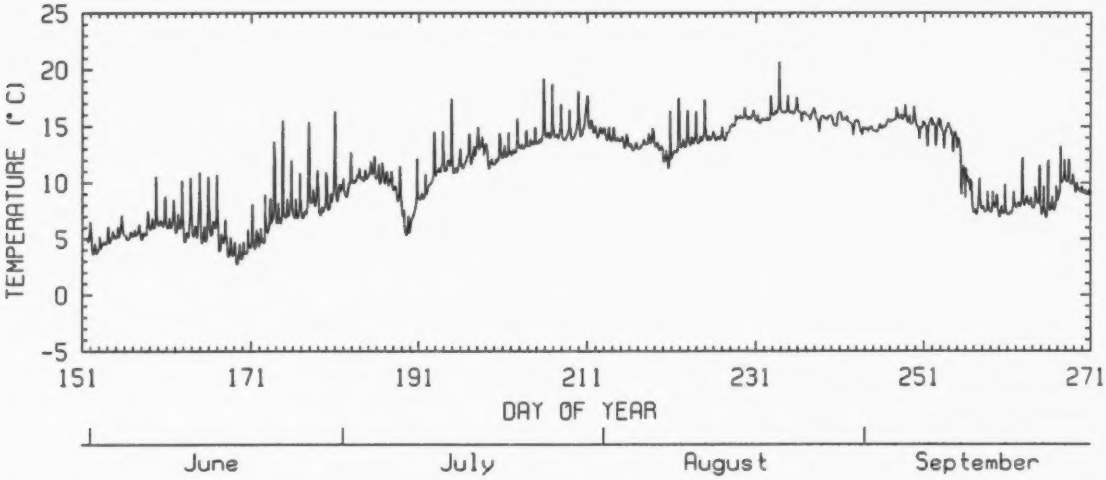
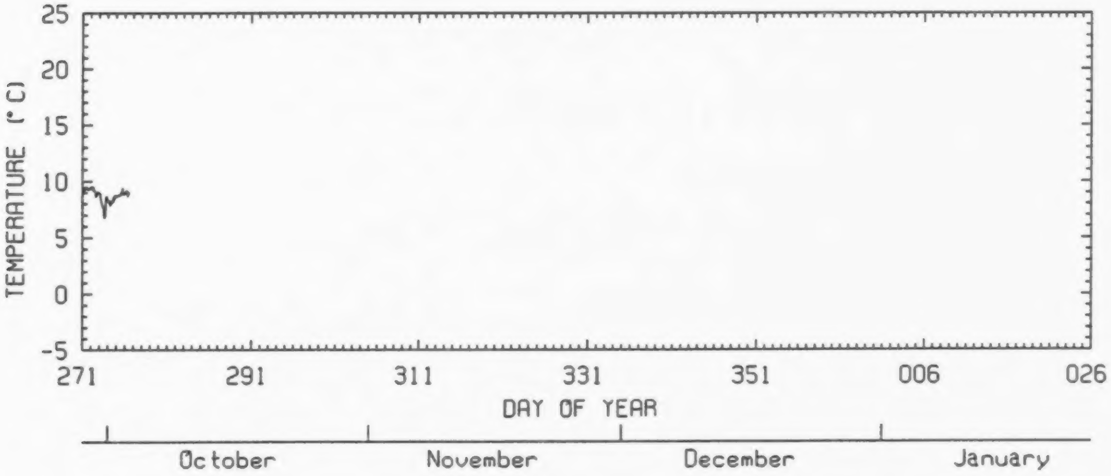
ST. BARBE BAY





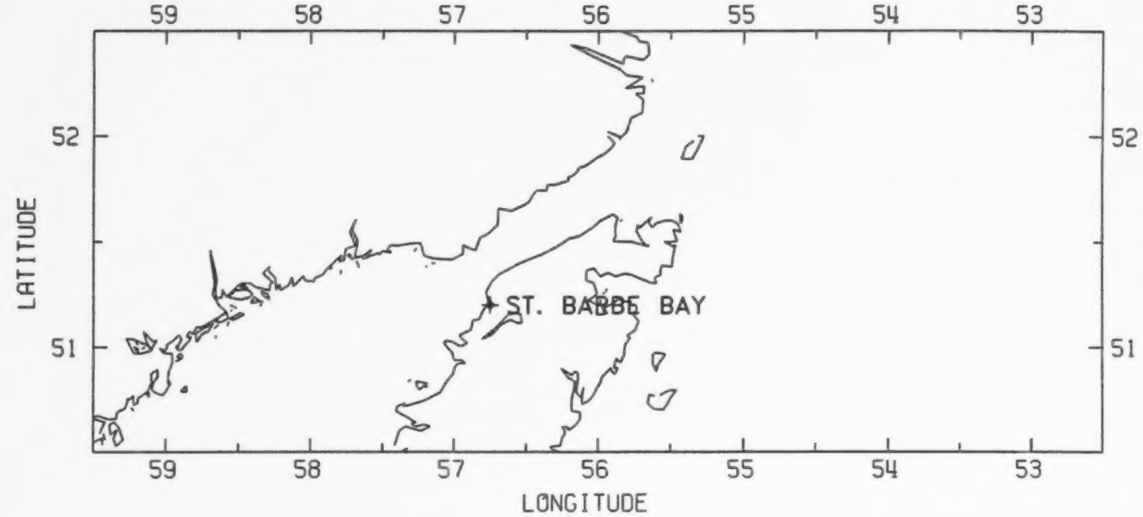
Start:31-MAY-2002 End: 3-OCT-2002 Inst. S/N:8975

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2002

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008961
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	5 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-MAY-2002 15:00 GMT
RECOVERY DATE/TIME:	03-OCT-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	4.05	151	4.30	151	4.15	0.10	4.1	0.1	9
JUN-2002	2.70	169	8.95	181	5.48	1.44	164.3	46.9	720
JUL-2002	5.00	189	14.95	210	11.43	2.29	354.4	230.4	744
AUG-2002	9.90	220	16.75	233	14.55	1.43	451.1	327.1	744
SEP-2002	7.10	259	16.05	248	11.11	3.33	333.2	213.2	720
OCT-2002	8.85	274	9.15	276	8.97	0.08	27.0	15.0	61
T.PERIOD	2.70	169	16.75	233	10.62	3.95	1334.0	832.6	2998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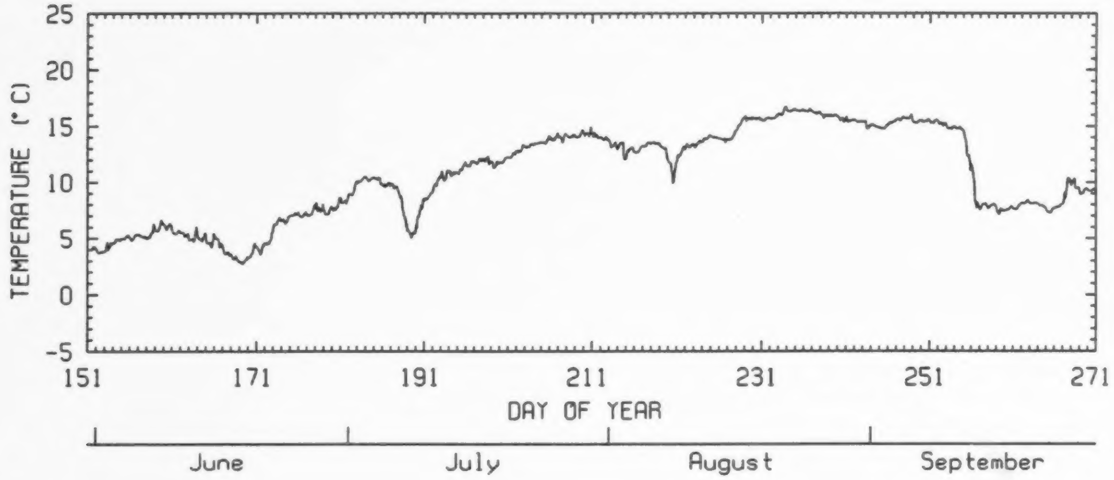
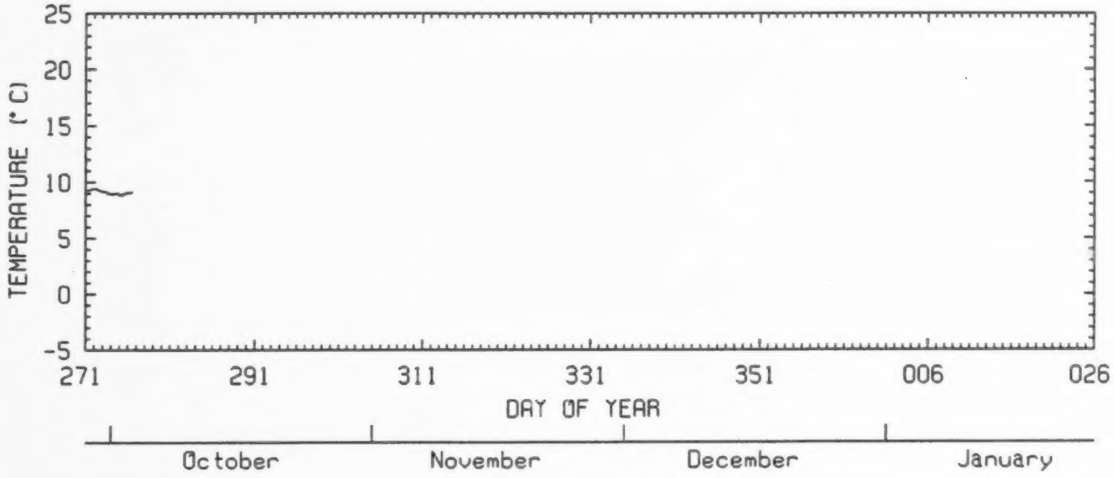
LATITUDE
ST. BARBE BAY
LONGITUDE





Start:31-MAY-2002 End: 3-OCT-2002 Inst. S/N:8961

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2002

STATION NAME: ST. BARBE BAY

STATION NUMBER: 273

INSTRUMENT TYPE: Seamon UTR-B (Hugrun)

INSTRUMENT S/N: 006742

LATITUDE: 51.20° N

LONGITUDE: 56.75° W

INSTRUMENT DEPTH: 1 m

WATER DEPTH: 5 m

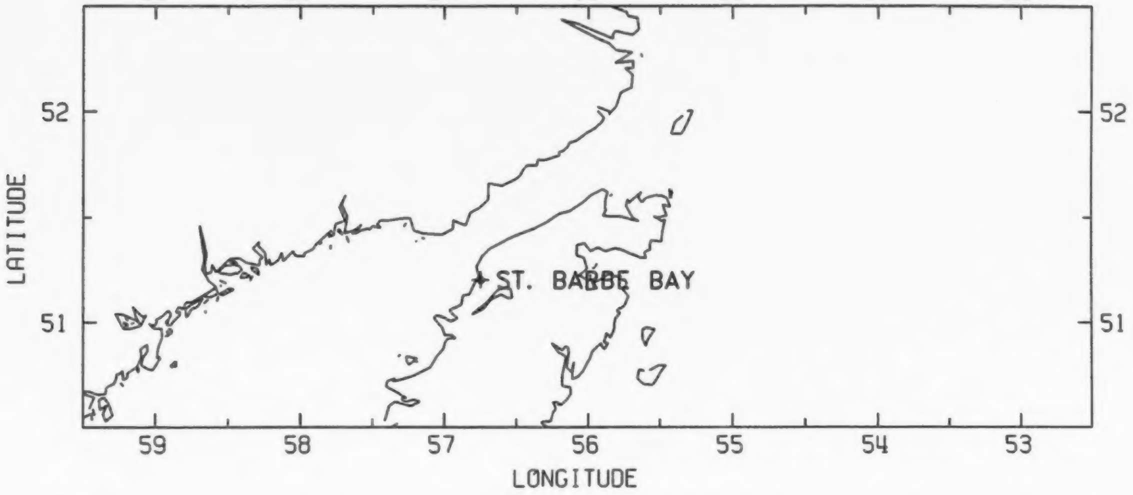
SAMPLE INTERVAL: 60 min.

DEPLOYMENT DATE/TIME: 31-MAY-2002 15:00 GMT

RECOVERY DATE/TIME: 03-OCT-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	4.15	151	5.00	151	4.60	0.35	4.6	0.6	9
JUN-2002	2.65	169	11.25	177	5.77	1.56	173.2	54.9	720
JUL-2002	5.20	189	16.60	210	11.66	2.25	361.5	237.5	744
AUG-2002	10.65	220	17.05	233	14.58	1.31	452.1	328.1	744
SEP-2002	6.70	273	16.05	248	10.97	3.31	329.2	209.2	720
OCT-2002	8.05	274	9.10	276	8.73	0.25	26.3	14.3	61
T.PERIOD	2.65	169	17.05	233	10.73	3.86	1346.9	844.7	2998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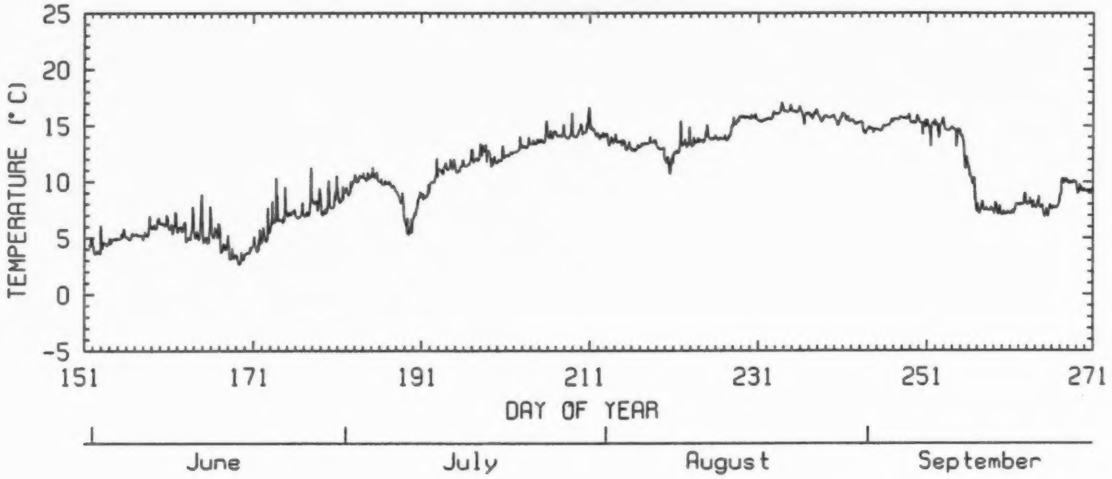
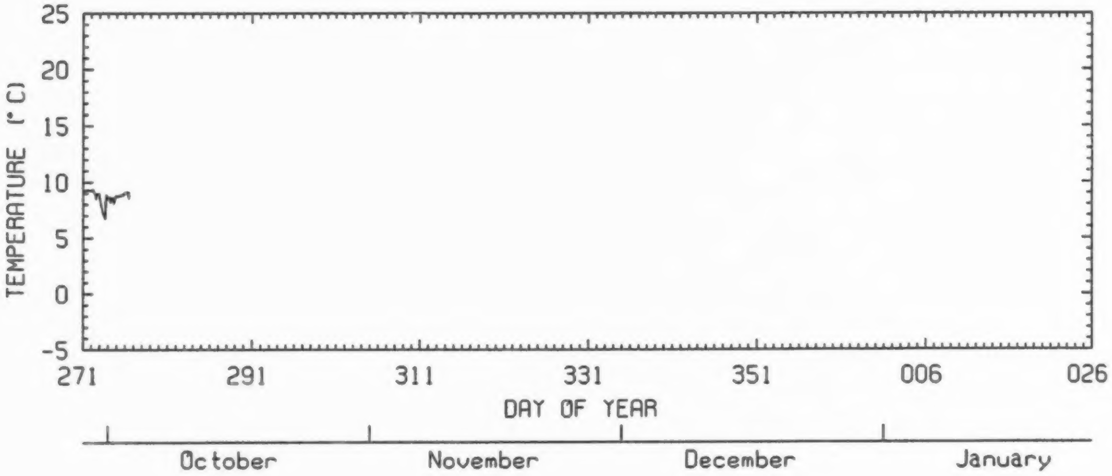
LATITUDE
ST. BARBE BAY
LONGITUDE





Start:31-MAY-2002 End: 3-OCT-2002 Inst. S/N:6742

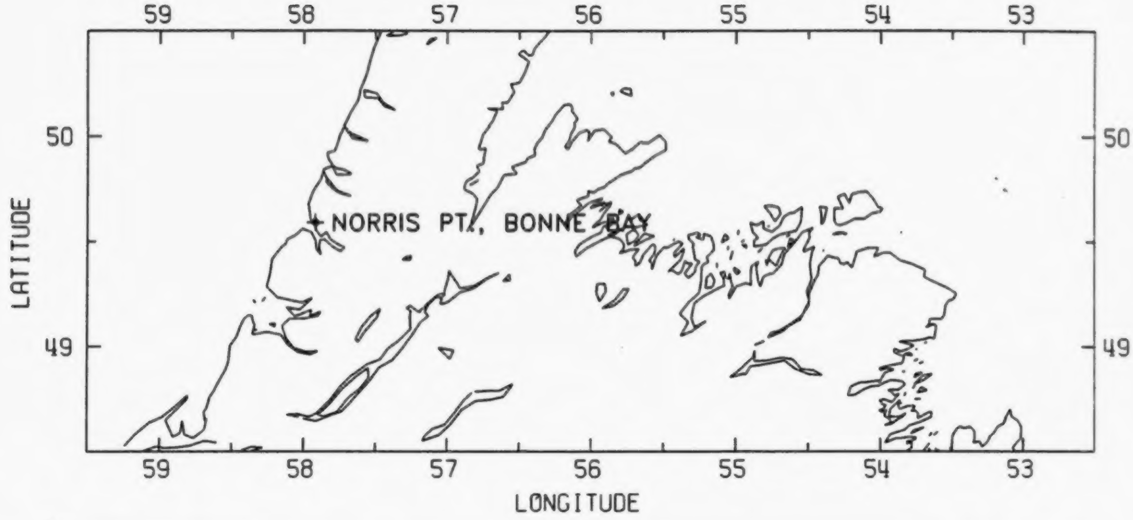
Appendix 15. Time Series Plots and Monthly Statistics from Unit Area 4Rb

THERMOGRAPH DATA SUMMARY: NORRIS PT., BONNE BAY (192) 2001

STATION NAME:	NORRIS PT., BONNE BAY
STATION NUMBER:	192
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004354
LATITUDE:	49.59° N
LONGITUDE:	57.92° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-MAY-2001 23:00 GMT
RECOVERY DATE/TIME:	31-DEC-2001 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2001	0.70	146	3.90	147	1.75	0.55	18.9	0.0	241
JUN-2001	0.50	153	12.50	178	6.83	2.95	205.0	92.3	720
JUL-2001	7.20	184	15.00	212	11.75	1.40	364.1	240.1	744
AUG-2001	11.50	213	18.70	230	16.32	1.08	505.8	381.8	744
SEP-2001	12.20	268	17.10	245	14.93	0.94	447.9	327.9	720
OCT-2001	9.10	304	13.80	274	11.17	1.09	346.2	222.2	744
NOV-2001	4.20	334	9.20	305	7.03	1.39	210.8	90.8	720
DEC-2001	2.60	364	5.50	336	3.73	0.68	115.6	5.4	744
T.PERIOD	0.50	153	18.70	230	9.88	4.75	2214.3	1360.5	5377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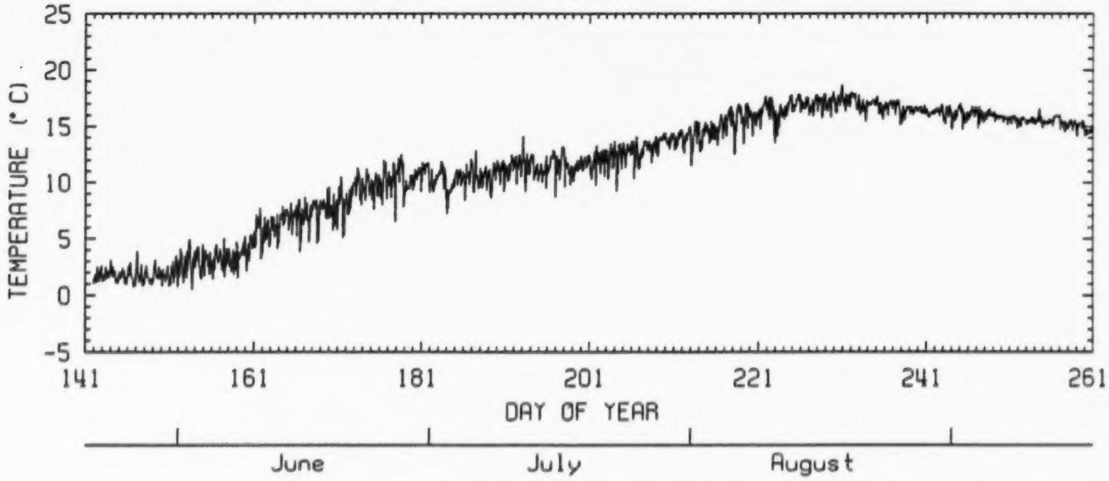
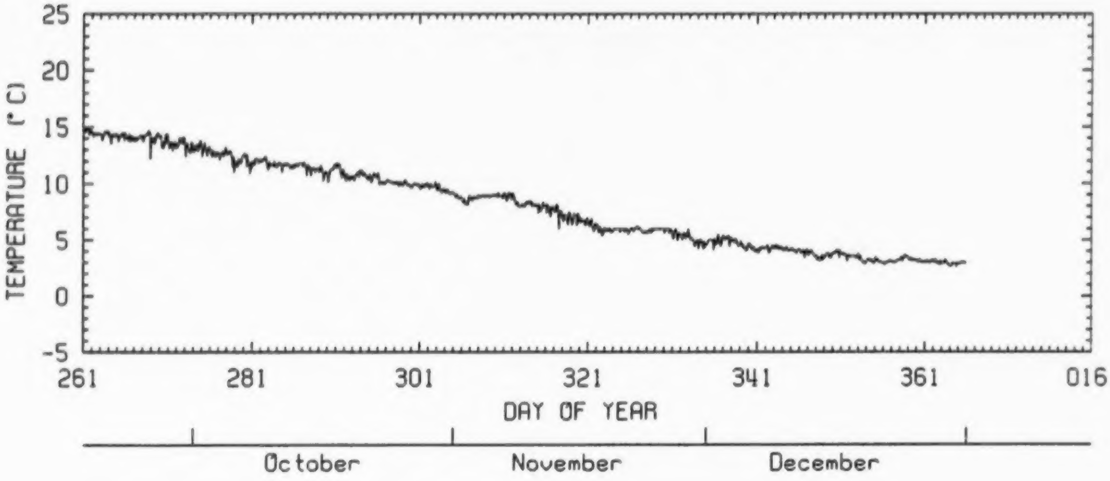
LATITUDE
NORRIS PT., BONNE BAY
LONGITUDE





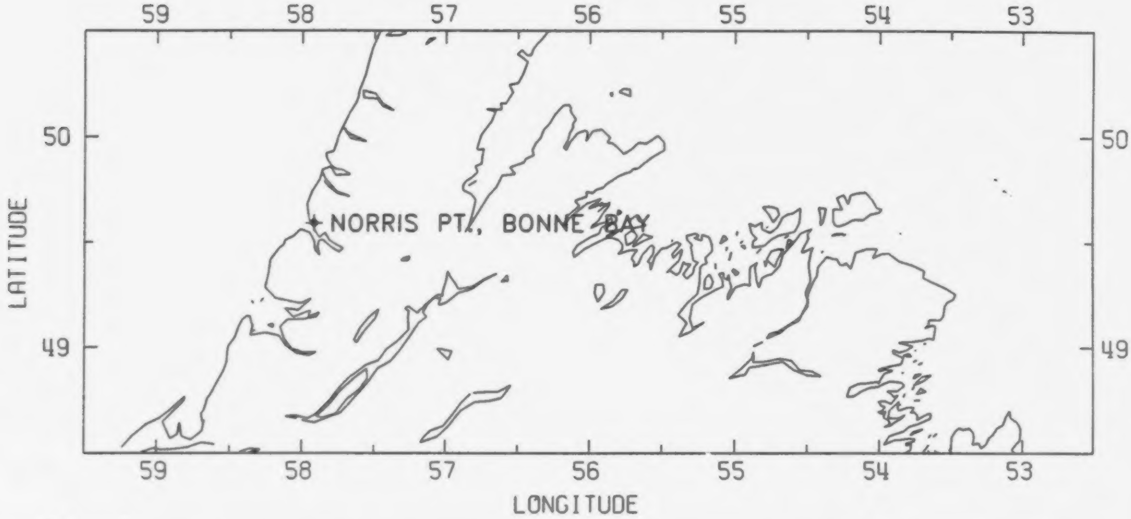
Start:21-MAY-2001 End:31-DEC-2001 Inst. S/N:4354

THERMOGRAPH DATA SUMMARY: NORRIS PT., BONNE BAY (192) 2002

STATION NAME:	NORRIS PT., BONNE BAY
STATION NUMBER:	192
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004354
LATITUDE:	49.59° N
LONGITUDE:	57.92° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2002 00:00 GMT
RECOVERY DATE/TIME:	18-MAR-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2002	-0.60	31	3.30	1	1.49	0.70	46.2	0.0	744
FEB-2002	-1.60	42	0.90	54	-0.16	0.60	4.2	0.0	672
MAR-2002	-1.40	75	0.50	63	-0.61	0.34	0.0	0.0	420
T.PERIOD	-1.60	42	3.30	1	0.41	1.09	50.4	0.0	1836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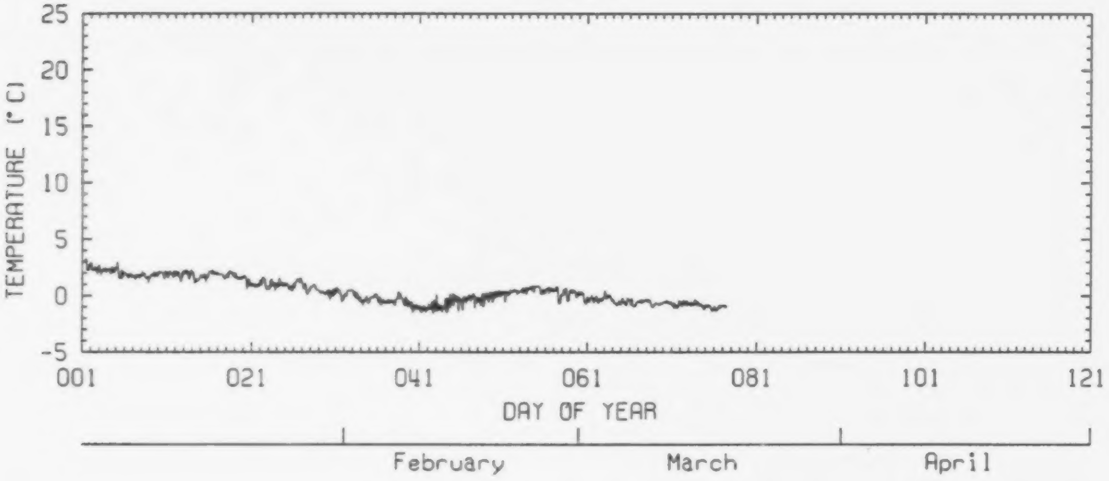
LATITUDE
LONGITUDE
NORRIS PT., BONNE BAY



Start: 1-JAN-2002 End: 18-MAR-2002 Inst. S/N:4354

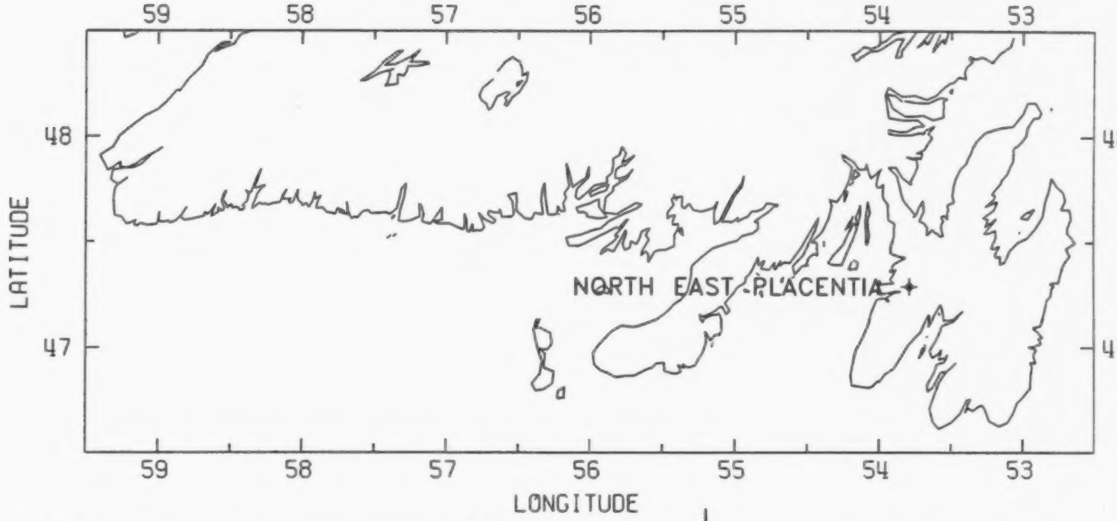
Appendix 16. Time Series Plots and Monthly Statistics from Freshwater Sites around Newfoundland and Labrador

THERMOGRAPH DATA SUMMARY: NORTH EAST PLACENTIA (108) 2002

STATION NAME:	NORTH EAST PLACENTIA
STATION NUMBER:	108
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006250
LATITUDE:	47.29° N
LONGITUDE:	53.79° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2002 12:00 GMT
RECOVERY DATE/TIME:	19-SEP-2002 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	14.50	201	25.20	183	18.82	2.06	565.1	445.1	708
AUG-2002	6.70	243	25.90	228	19.01	2.91	589.3	465.3	744
SEP-2002	3.20	244	27.50	256	15.41	4.49	292.8	216.8	456
T.PERIOD	3.20	244	27.50	256	18.08	3.45	1447.2	1127.2	1908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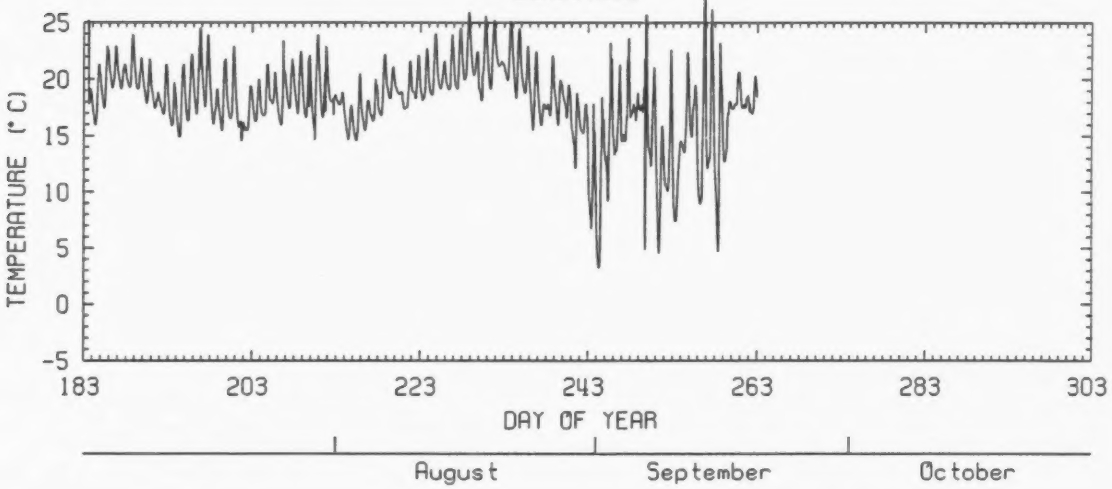
LATITUDE
NORTH EAST PLACENTIA
LONGITUDE



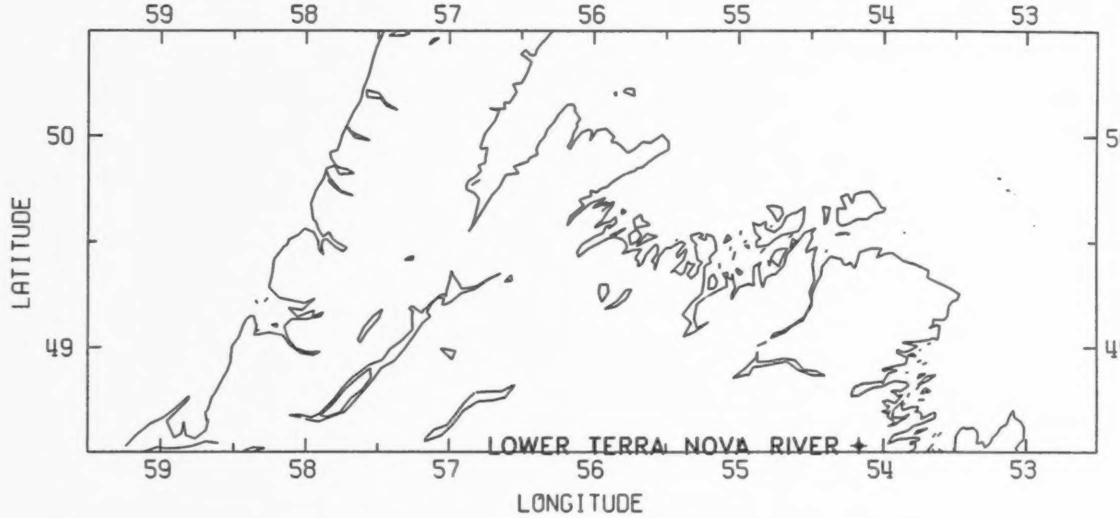
Start: 2-JUL-2002 End: 19-SEP-2002 Inst. S/N:6250

THERMOGRAPH DATA SUMMARY: LOWER TERRA NOVA RIVER (115) 2002

STATION NAME:	LOWER TERRA NOVA RIVER
STATION NUMBER:	115
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	6247
LATITUDE:	48.53° N
LONGITUDE:	54.17° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	30 min.
DEPLOYMENT DATE/TIME:	11-JUN-2002 12:00 GMT
RECOVERY DATE/TIME:	27-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	10.20	169	19.20	172	14.53	2.24	290.0	210.0	936
JUL-2002	16.30	202	24.50	188	19.86	1.61	615.6	491.6	1488
AUG-2002	13.90	223	25.20	221	19.73	2.57	611.6	487.6	1488
SEP-2002	11.80	257	19.70	249	15.10	1.99	407.7	299.7	1273
T.PERIOD	10.20	169	25.20	221	17.69	3.24	1924.9	1488.9	5185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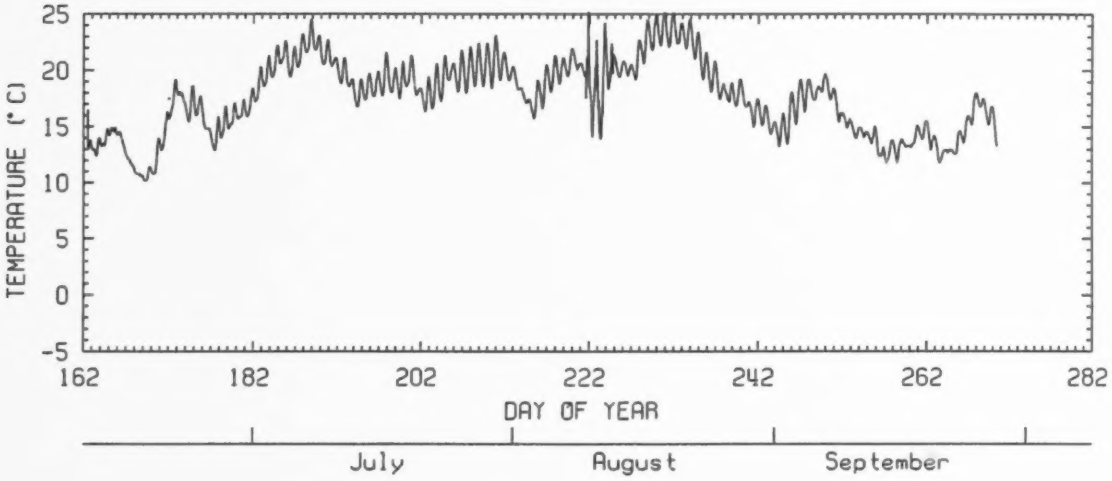
LATITUDE
LONGITUDE
LOWER TERRA NOVA RIVER +



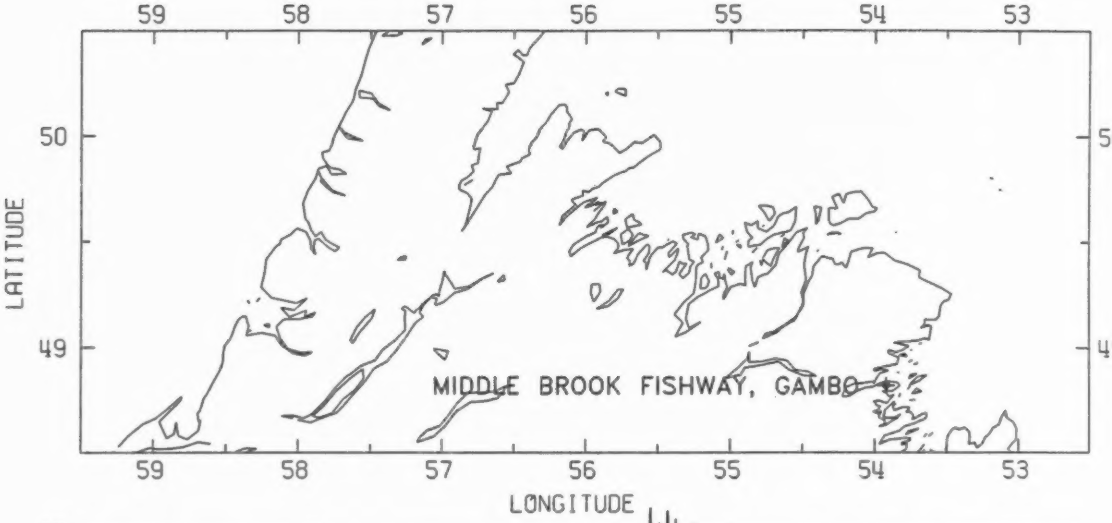
Start: 11-JUN-2002 End: 27-SEP-2002 Inst. S/N:6247

THERMOGRAPH DATA SUMMARY: MIDDLE BROOK FISHWAY, GAMBO (124) 2002

STATION NAME:	MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER:	124
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	4019
LATITUDE:	48.82° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	10-JUN-2002 12:00 GMT
RECOVERY DATE/TIME:	14-SEP-2002 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	10.50	169	21.10	172	14.34	2.55	301.1	217.1	492
JUL-2002	14.90	202	25.70	188	19.93	2.36	617.7	493.7	744
AUG-2002	12.60	243	27.60	228	19.68	2.96	609.9	485.9	744
SEP-2002	10.20	256	23.90	246	16.16	3.13	224.6	168.6	324
T.PERIOD	10.20	256	27.60	228	18.12	3.58	1753.4	1365.4	2304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LATITUDE
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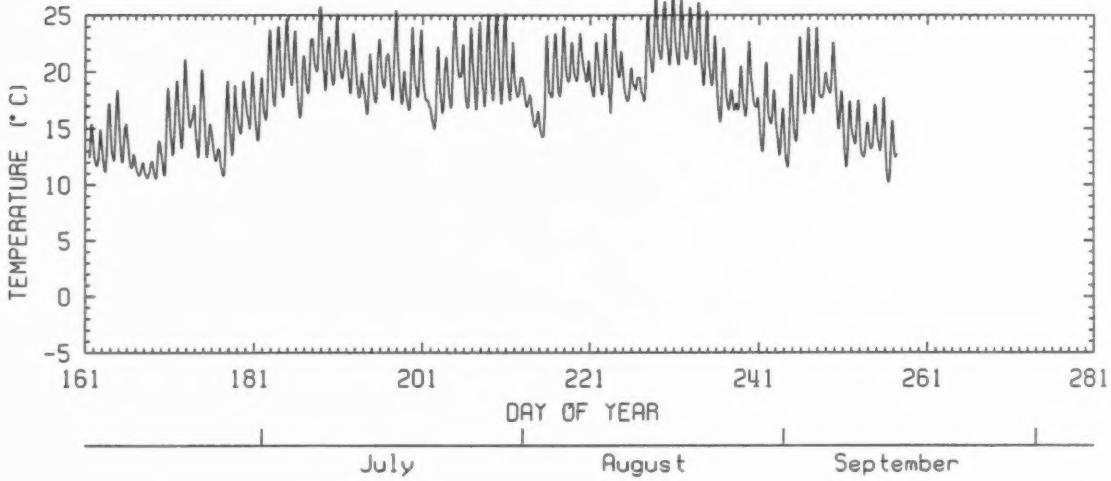
MIDDLE BROOK FISHWAY, GAMBO
LONGITUDE



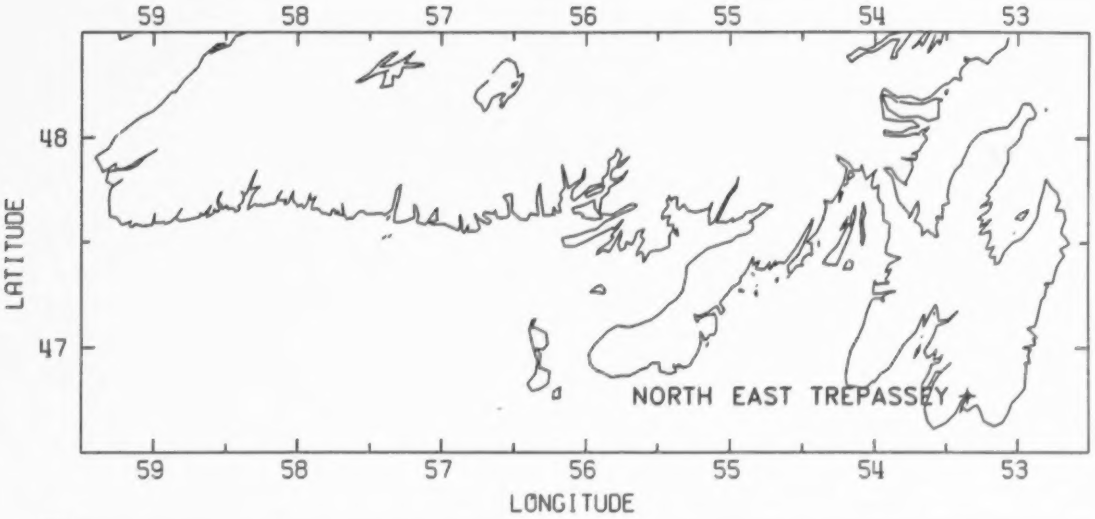
Start: 10-JUN-2002 End: 14-SEP-2002 Inst. S/N:4019

THERMOGRAPH DATA SUMMARY: NORTH EAST TREPASSEY (130) 2002

STATION NAME:	NORTH EAST TREPASSEY
STATION NUMBER:	130
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	6444
LATITUDE:	46.77° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-APR-2002 20:00 GMT
RECOVERY DATE/TIME:	27-SEP-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2002	2.20	114	8.10	112	4.99	1.11	75.4	15.4	340
MAY-2002	4.30	125	14.60	150	8.17	2.11	253.2	129.2	744
JUN-2002	9.20	162	19.50	173	12.33	2.06	369.9	249.9	720
JUL-2002	11.80	182	22.10	211	16.89	1.87	523.7	399.7	744
AUG-2002	13.90	243	24.00	230	18.12	2.02	561.8	437.8	744
SEP-2002	11.80	263	20.80	247	14.45	1.54	389.4	281.4	638
T.PERIOD	2.20	114	24.00	230	13.21	4.66	2173.4	1513.4	3930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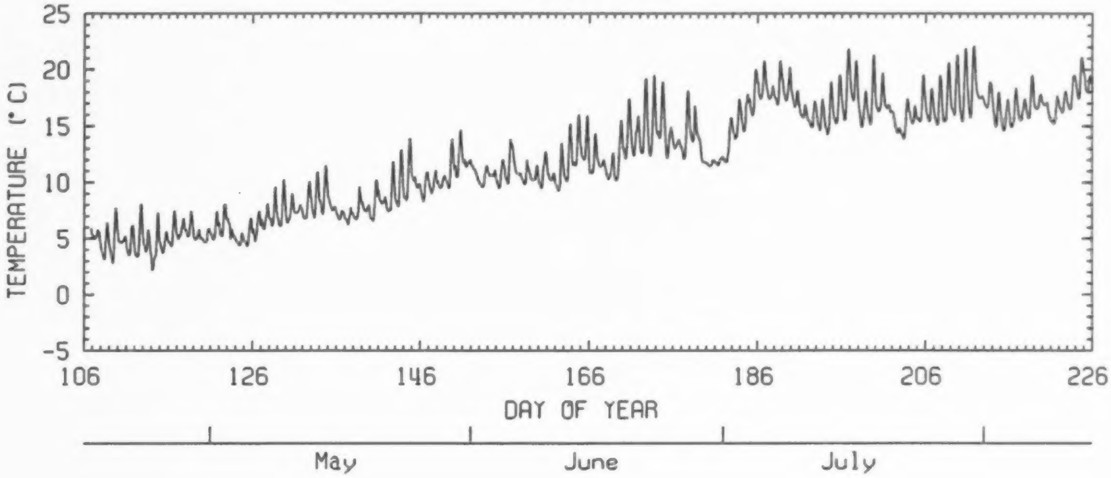
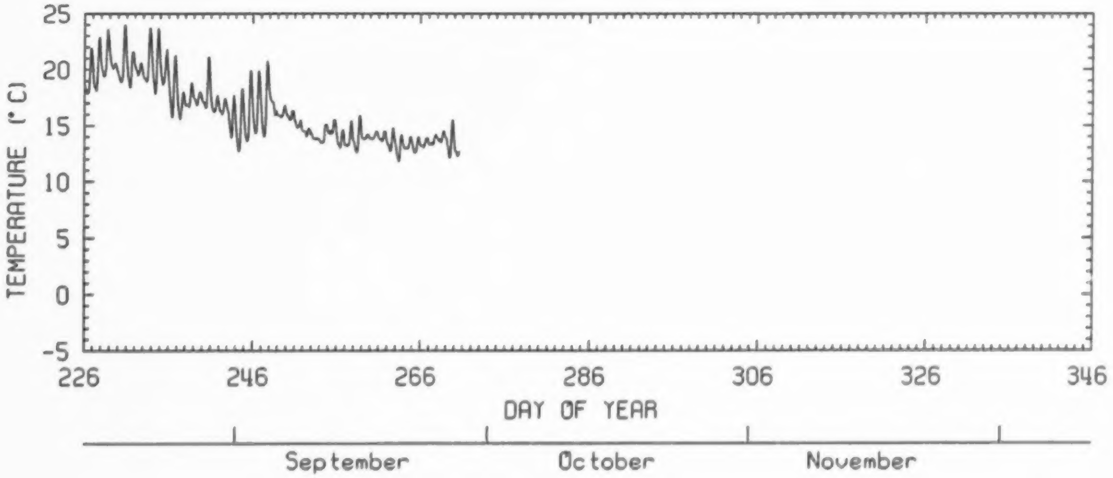
LATITUDE
NORTH EAST TREPASSEY
LONGITUDE





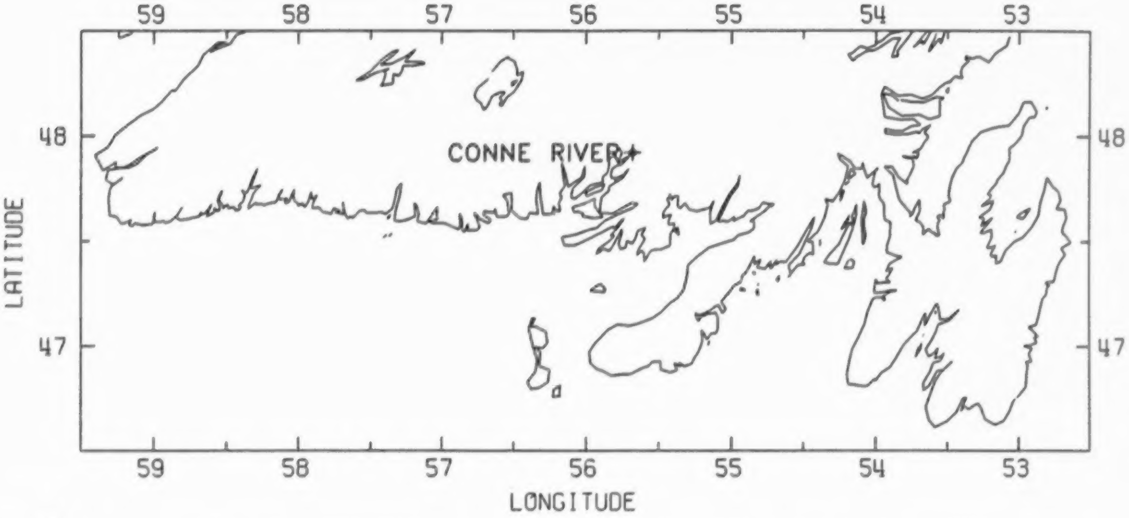
Start: 16-APR-2002 End: 27-SEP-2002 Inst. S/N: 6444

THERMOGRAPH DATA SUMMARY: CONNE RIVER (133) 2002

STATION NAME:	CONNE RIVER
STATION NUMBER:	133
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	6741
LATITUDE:	47.92° N
LONGITUDE:	55.68° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-APR-2002 12:00 GMT
RECOVERY DATE/TIME:	05-AUG-2002 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2002	2.25	119	7.75	115	4.06	1.05	24.4	1.9	132
MAY-2002	2.90	121	17.25	149	9.45	3.16	292.8	168.8	744
JUN-2002	10.05	169	22.05	172	14.07	2.35	422.2	302.2	720
JUL-2002	13.95	194	25.20	210	18.99	2.17	588.6	464.6	744
AUG-2002	14.50	215	23.15	216	17.75	2.18	89.1	69.1	116
T.PERIOD	2.25	119	25.20	210	13.79	5.11	1417.0	1006.5	2456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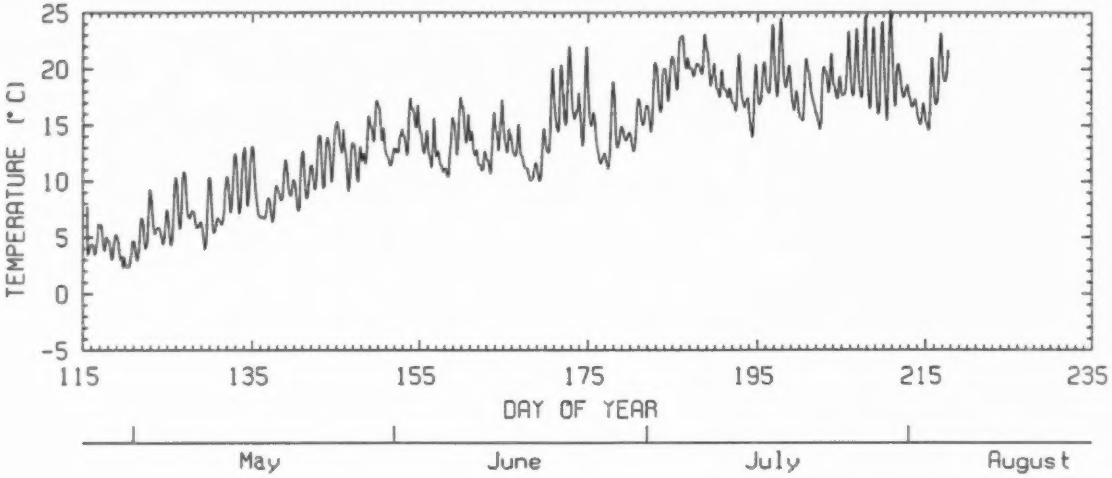
LATITUDE
CONNE RIVER
LONGITUDE



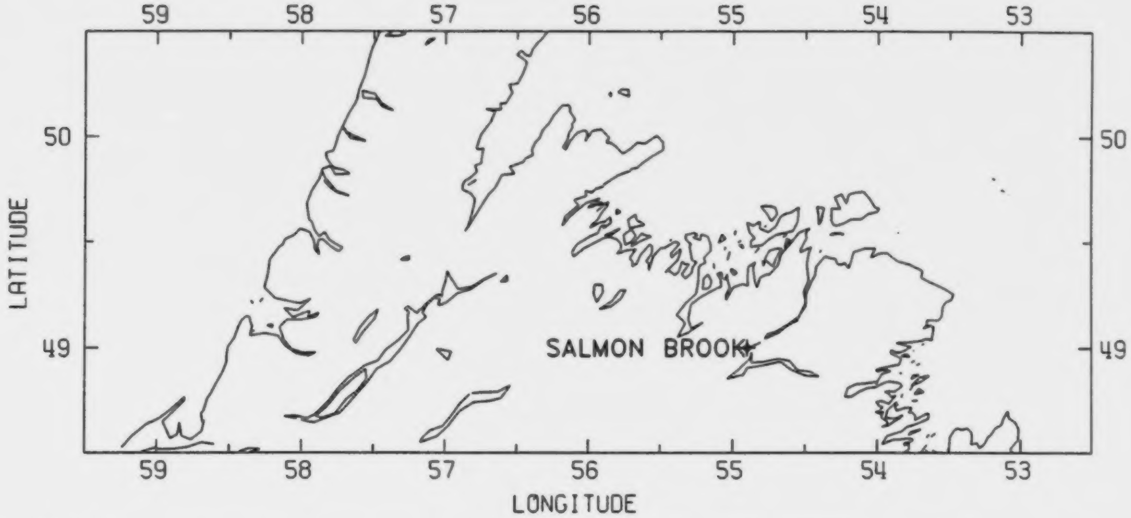
Start: 25-APR-2002 End: 5-AUG-2002 Inst. S/N:6741

THERMOGRAPH DATA SUMMARY: SALMON BROOK (152) 2002

STATION NAME:	SALMON BROOK
STATION NUMBER:	152
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	6431
LATITUDE:	49.00° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	10-JUN-2002 14:00 GMT
RECOVERY DATE/TIME:	12-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	10.10	168	20.50	174	14.63	2.60	307.2	223.2	490
JUL-2002	16.30	202	25.70	210	20.41	1.74	632.7	508.7	744
AUG-2002	13.80	243	24.40	233	19.74	2.49	611.8	487.8	744
SEP-2002	13.20	244	20.30	247	16.44	1.85	196.4	148.4	277
T.PERIOD	10.10	168	25.70	210	18.44	3.23	1748.1	1368.1	2255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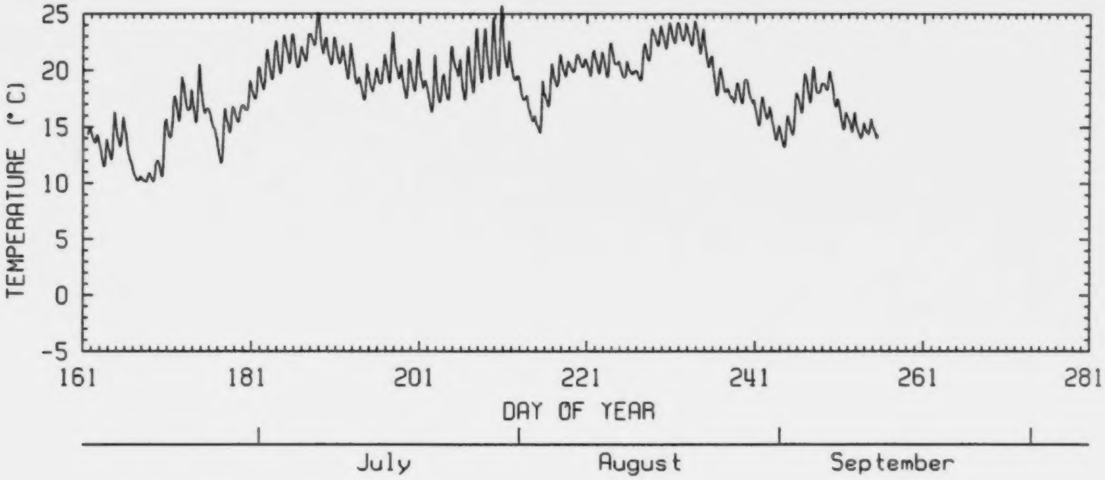
LATITUDE
SALMON BROOK
LONGITUDE



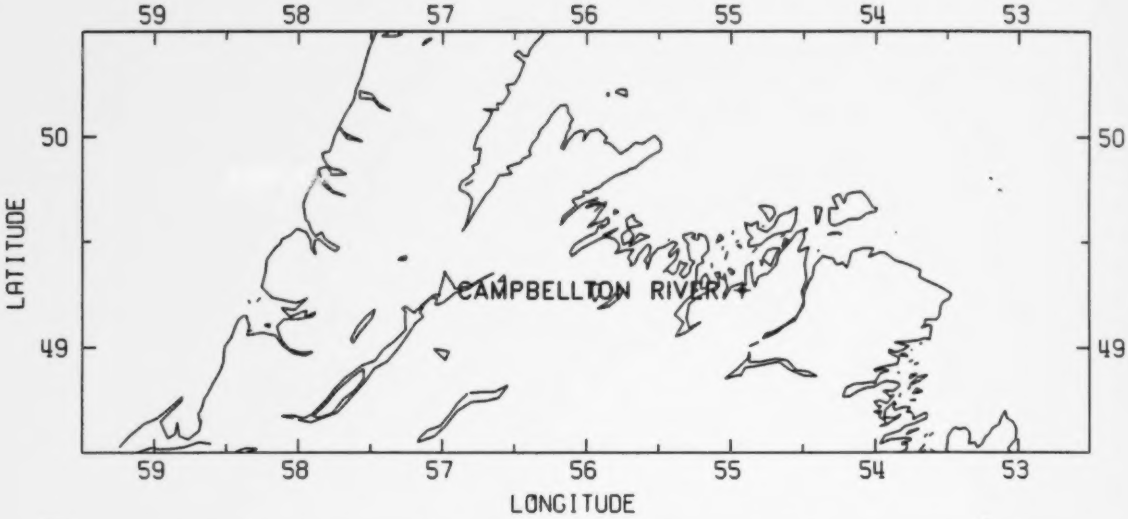
Start: 10-JUN-2002 End: 12-SEP-2002 Inst. S/N:6431

THERMOGRAPH DATA SUMMARY: CAMPBELLTON RIVER (181) 2002

STATION NAME:	CAMPBELLTON RIVER
STATION NUMBER:	181
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	8973
LATITUDE:	49.27° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-MAY-2002 12:00 GMT
RECOVERY DATE/TIME:	10-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	5.00	125	18.05	149	9.89	2.96	295.1	175.1	708
JUN-2002	9.85	167	21.10	181	15.11	2.58	453.4	333.4	720
JUL-2002	15.60	202	25.65	188	20.56	2.03	637.4	513.4	744
AUG-2002	13.30	243	26.25	229	19.90	2.69	616.8	492.8	744
SEP-2002	12.65	244	21.50	247	17.30	1.98	173.2	133.2	229
T.PERIOD	5.00	125	26.25	229	16.52	4.84	2175.9	1647.9	3145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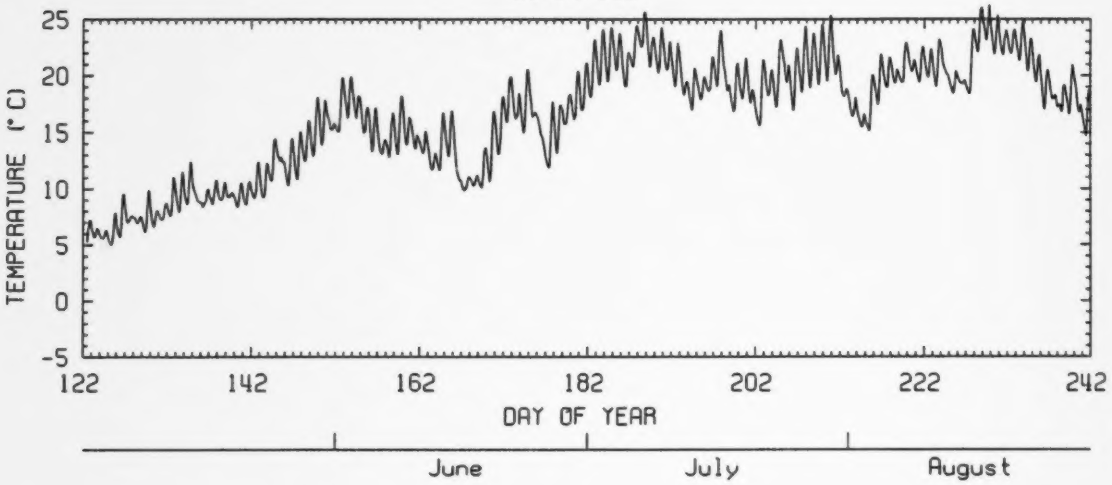
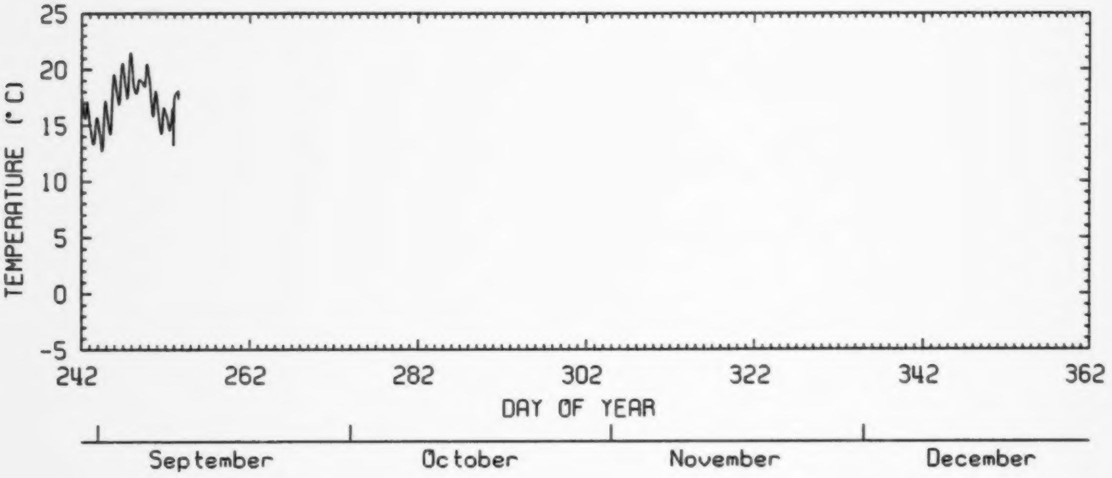
LATITUDE
CAMPBELLTON RIVER
LONGITUDE





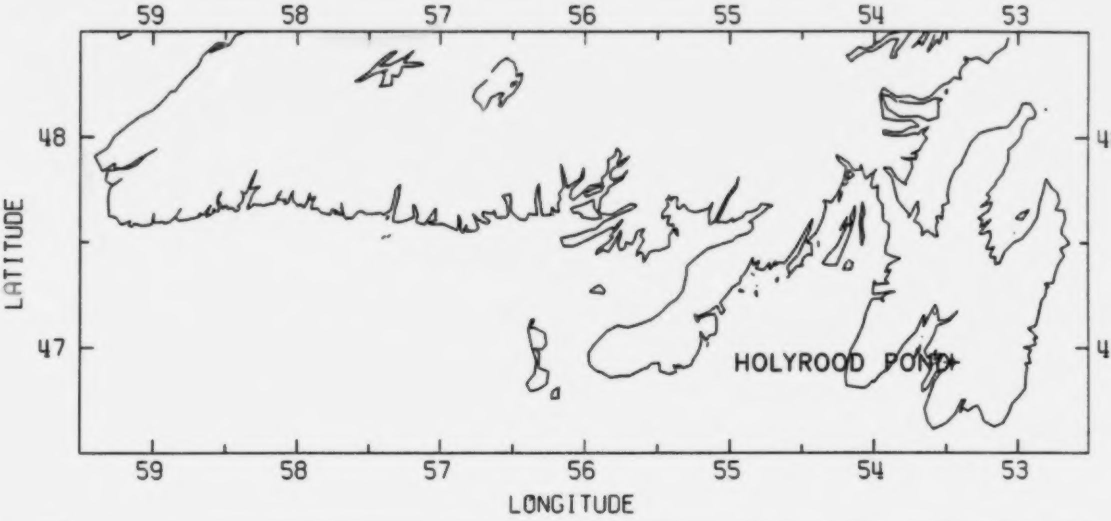
Start: 2-MAY-2002 End:10-SEP-2002 Inst. S/N:8973

THERMOGRAPH DATA SUMMARY: HOLYROOD POND (183) 2002

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007930
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	85 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-MAY-2002 19:00 GMT
RECOVERY DATE/TIME:	11-DEC-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	7.10	148	7.15	148	7.12	0.02	28.5	12.5	77
JUN-2002	7.05	163	7.15	152	7.11	0.02	213.4	93.4	720
JUL-2002	7.05	185	7.15	182	7.10	0.02	220.2	96.2	744
AUG-2002	7.05	214	7.15	213	7.10	0.01	220.1	96.1	744
SEP-2002	7.00	245	7.15	244	7.09	0.02	212.8	92.8	720
OCT-2002	7.05	274	7.20	277	7.16	0.03	222.0	98.0	744
NOV-2002	7.15	305	7.25	321	7.20	0.02	216.1	96.1	720
DEC-2002	7.20	335	7.35	343	7.26	0.03	79.8	35.8	254
T.PERIOD	7.00	245	7.35	343	7.14	0.05	1412.8	620.8	4723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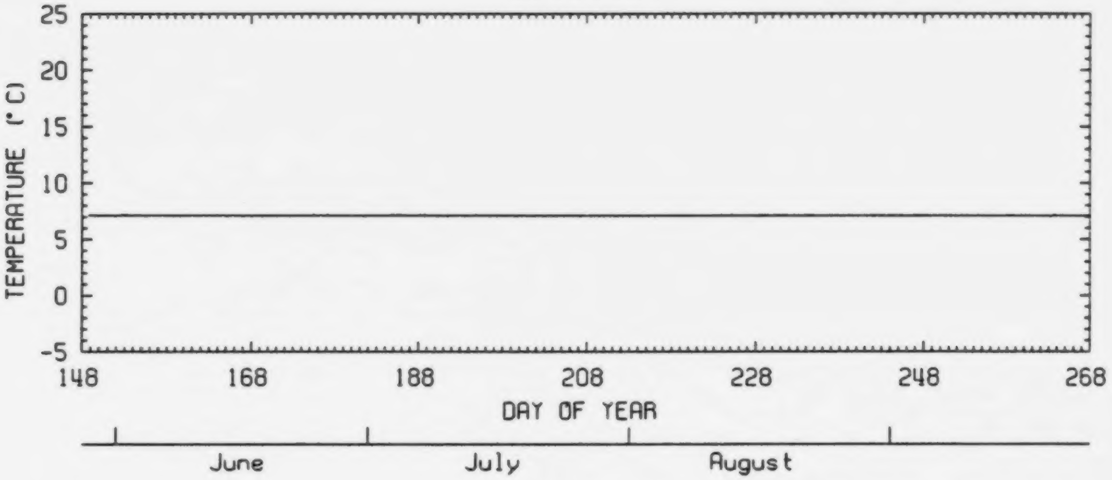
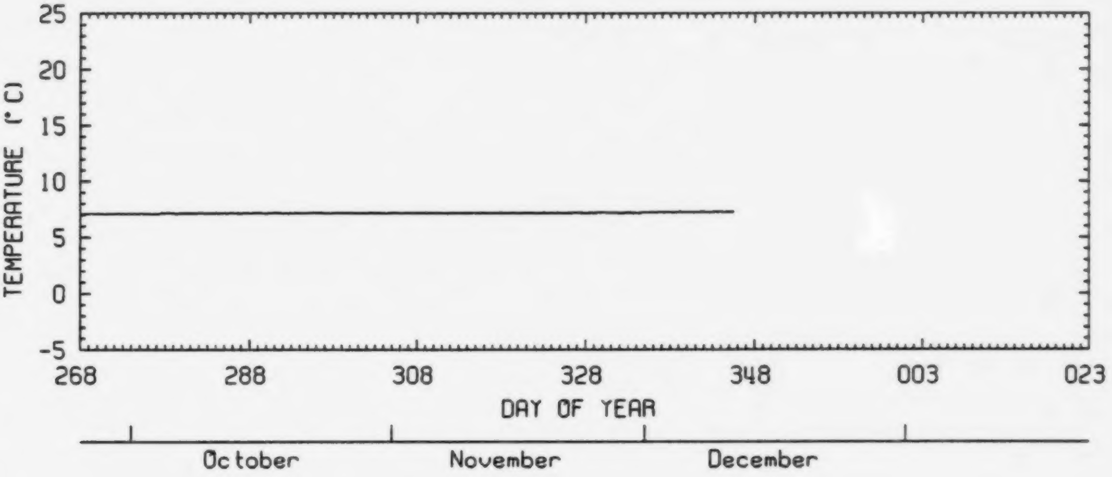
LATITUDE
HOLYROOD POND
LONGITUDE





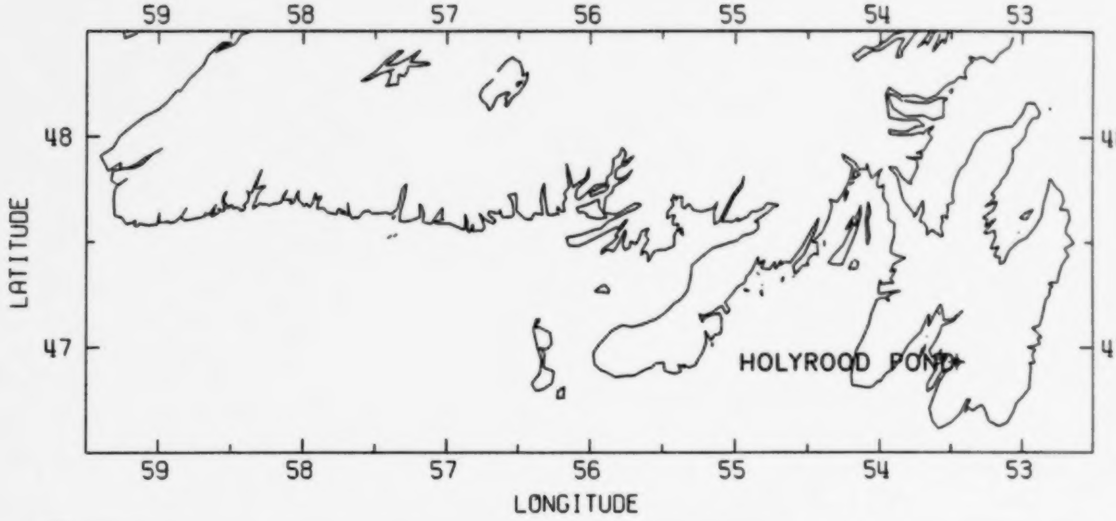
Start:28-MAY-2002 End:11-DEC-2002 Inst. S/N:7930

THERMOGRAPH DATA SUMMARY: HOLYROOD POND (183) 2002

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A0B
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	6 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2002 13:00 GMT
RECOVERY DATE/TIME:	11-DEC-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	5.15	143	9.15	151	7.23	0.93	71.7	31.7	227
JUN-2002	6.75	154	13.00	178	9.47	1.56	284.2	164.2	720
JUL-2002	6.20	210	16.10	193	10.48	2.06	324.9	200.9	744
AUG-2002	5.80	214	11.35	243	8.37	0.89	259.4	135.4	744
SEP-2002	7.40	244	13.35	272	10.88	1.57	326.3	206.3	720
OCT-2002	8.85	303	12.80	274	11.52	0.98	357.0	233.0	744
NOV-2002	5.15	334	9.60	307	7.24	0.83	217.3	97.3	720
DEC-2002	3.10	345	5.90	338	4.71	0.88	51.2	9.0	254
T.PERIOD	3.10	345	16.10	193	9.30	2.28	1892.0	1077.8	4873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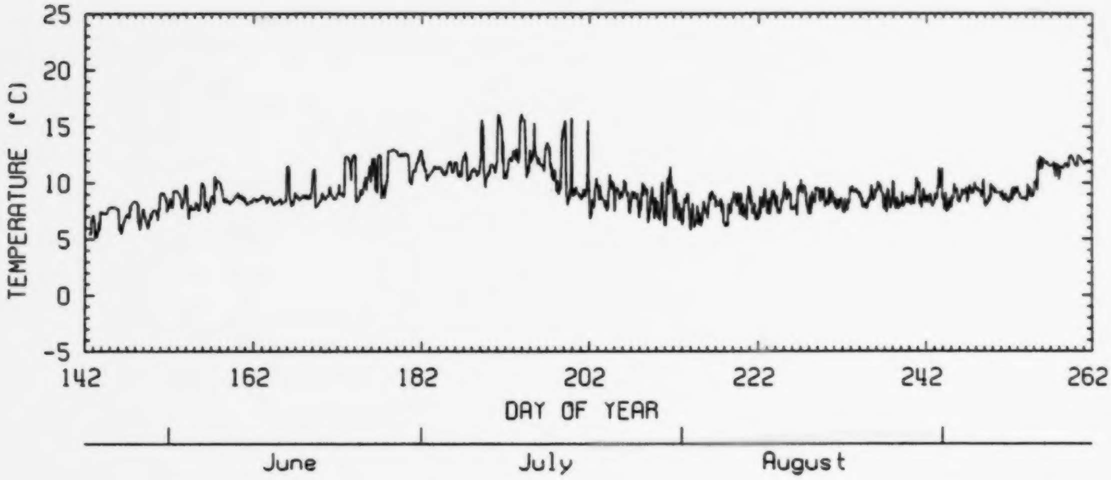
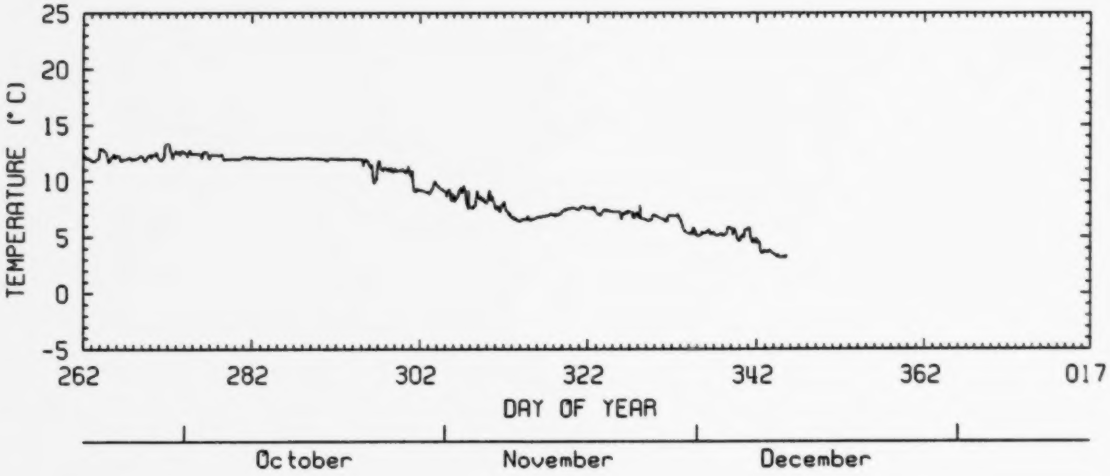
LATITUDE
LONGITUDE
HOLYROOD POND





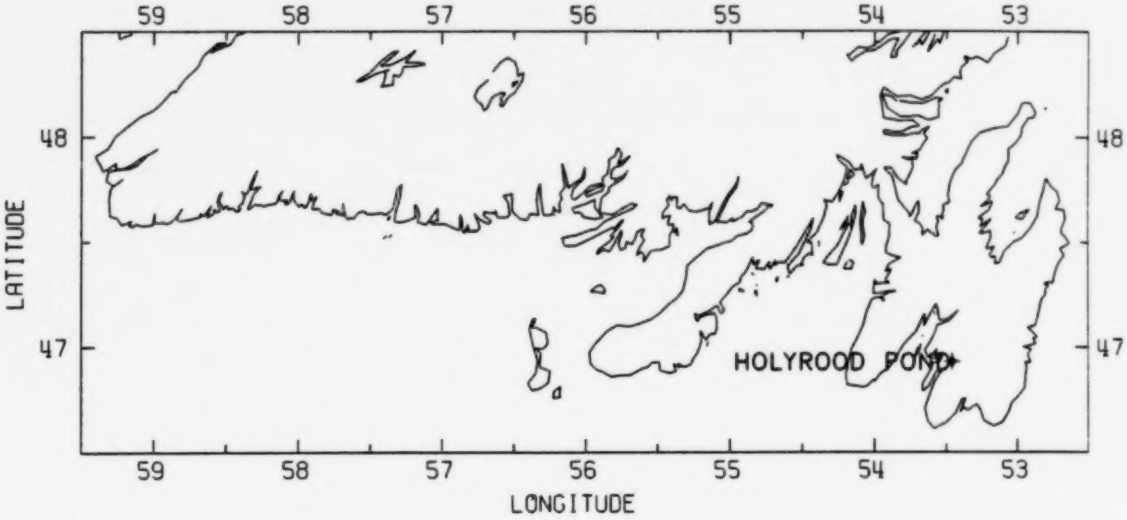
Start:22-MAY-2002 End:11-DEC-2002 Inst. S/N:8A0B

THERMOGRAPH DATA SUMMARY: HOLYROOD POND (183) 2002

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	6788
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	20 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2002 13:00 GMT
RECOVERY DATE/TIME:	11-DEC-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	4.80	145	5.80	144	5.17	0.23	51.7	11.7	227
JUN-2002	4.80	153	6.15	179	5.17	0.19	155.1	35.1	720
JUL-2002	4.90	189	6.40	212	5.33	0.23	165.4	41.4	744
AUG-2002	5.50	213	11.00	239	7.29	0.97	225.9	101.9	744
SEP-2002	7.50	246	12.00	257	10.21	0.83	306.2	186.2	720
OCT-2002	9.85	279	10.95	282	10.54	0.17	326.8	202.8	744
NOV-2002	9.25	331	10.95	308	10.31	0.34	309.2	189.2	720
DEC-2002	8.25	335	10.10	335	9.41	0.34	103.5	59.5	254
T.PERIOD	4.80	145	12.00	257	8.06	2.37	1643.7	827.7	4873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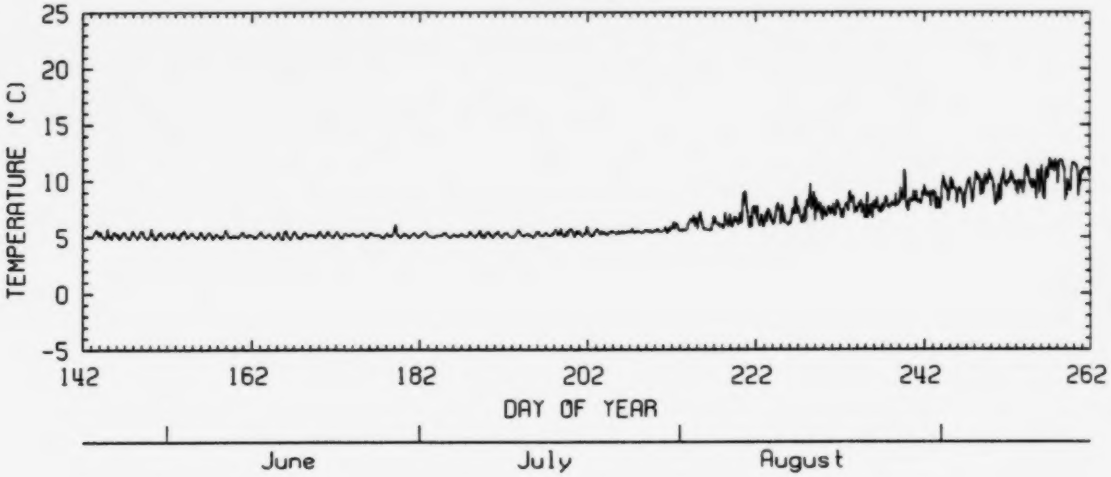
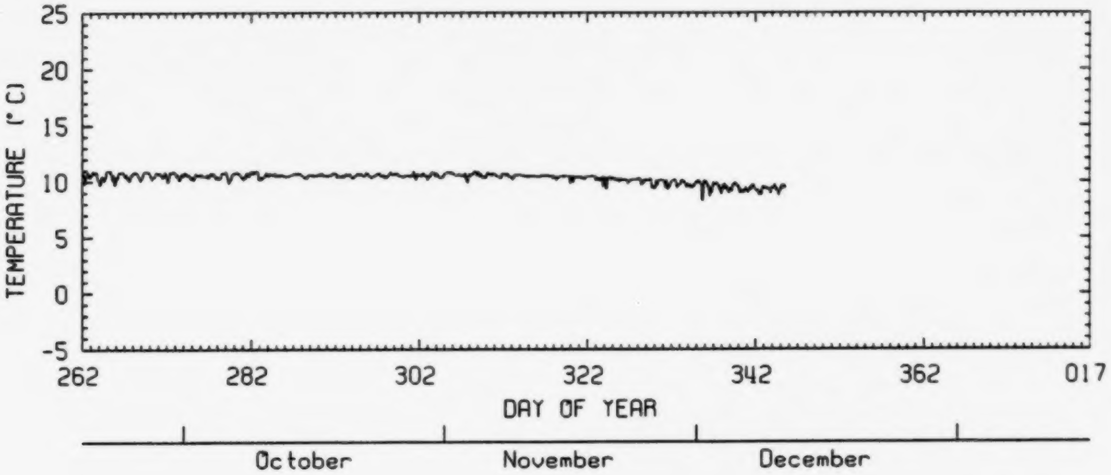
LATITUDE
HOLYROOD POND
LONGITUDE





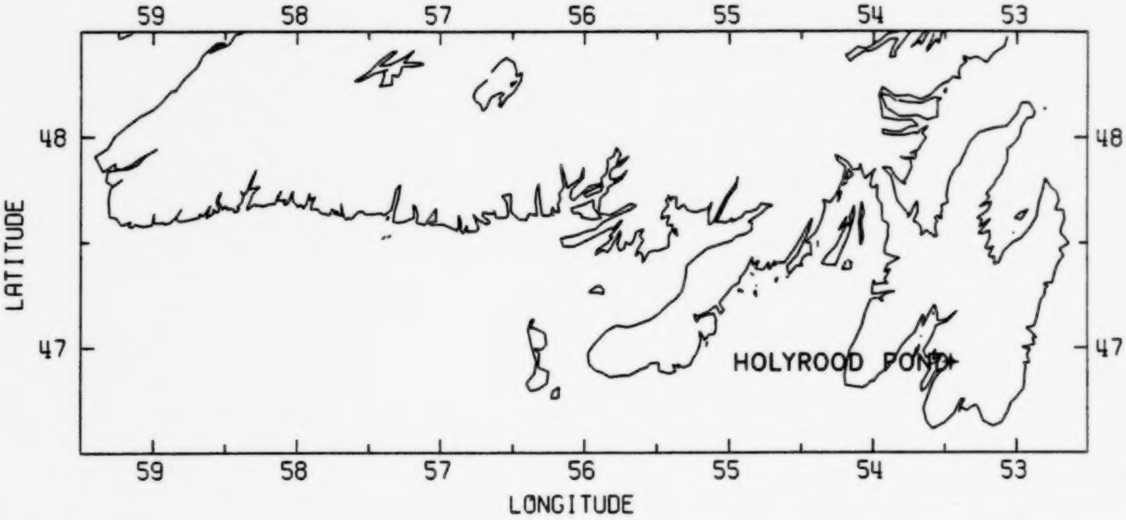
Start:22-MAY-2002 End:11-DEC-2002 Inst. S/N:6788

THERMOGRAPH DATA SUMMARY: HOLYROOD POND (183) 2002

STATION NAME:	HOLYROOD POND
STATION NUMBER:	183
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	5456
LATITUDE:	46.93° N
LONGITUDE:	53.46° W
INSTRUMENT DEPTH:	37 m
WATER DEPTH:	90 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2002 13:00 GMT
RECOVERY DATE/TIME:	11-DEC-2002 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	6.65	146	6.85	149	6.73	0.03	67.3	27.3	227
JUN-2002	6.65	153	6.85	169	6.73	0.03	202.0	82.0	720
JUL-2002	6.65	186	6.85	203	6.74	0.03	209.0	85.0	744
AUG-2002	6.65	220	7.35	240	6.77	0.07	209.9	85.9	744
SEP-2002	6.75	244	9.80	256	7.88	0.73	236.4	116.4	720
OCT-2002	7.95	275	9.60	281	8.88	0.20	275.3	151.3	744
NOV-2002	8.50	324	9.70	323	9.00	0.18	270.1	150.1	720
DEC-2002	8.25	336	9.75	335	9.10	0.26	100.1	56.1	254
T.PERIOD	6.65	146	9.80	256	7.70	1.06	1570.1	754.1	4873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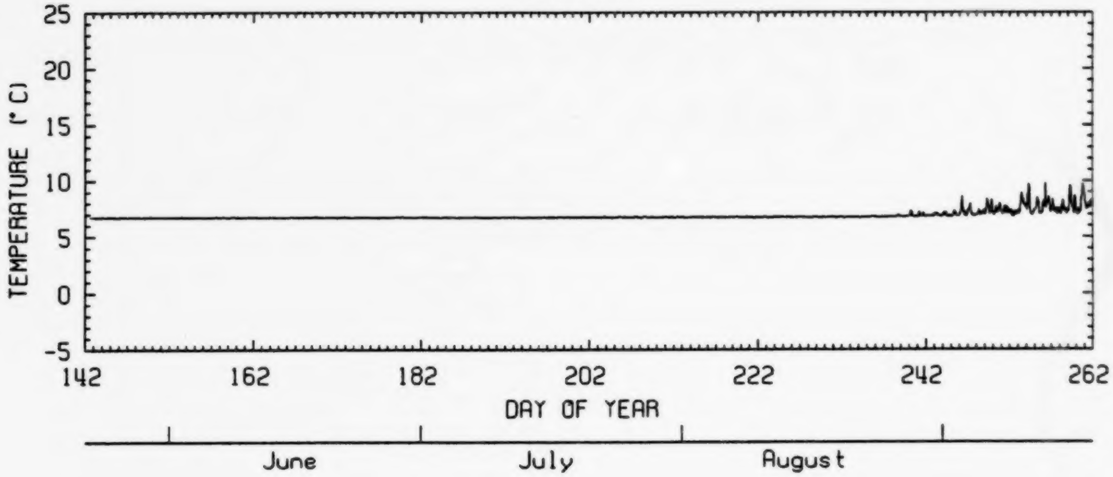
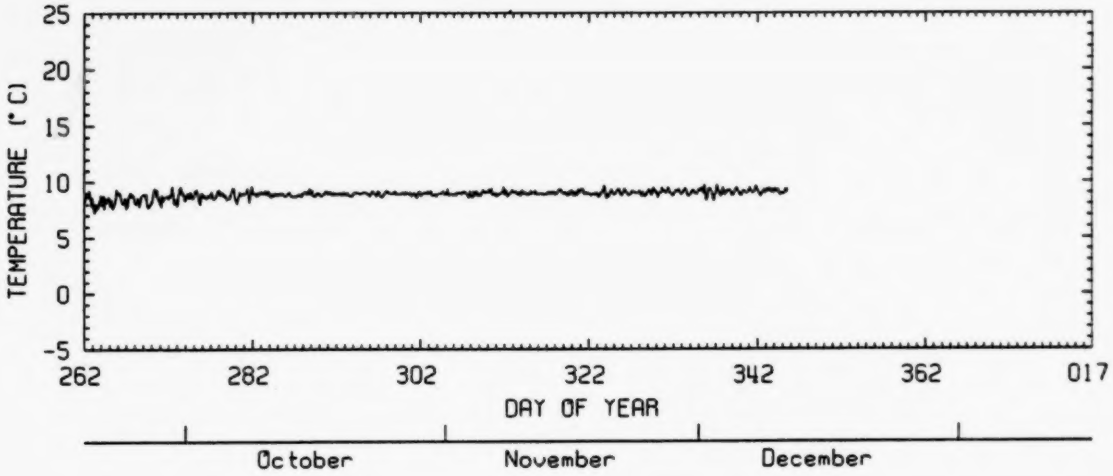
LATITUDE
HOLYROOD POND
LONGITUDE





Start:22-MAY-2002 End:11-DEC-2002 Inst. S/N:5456

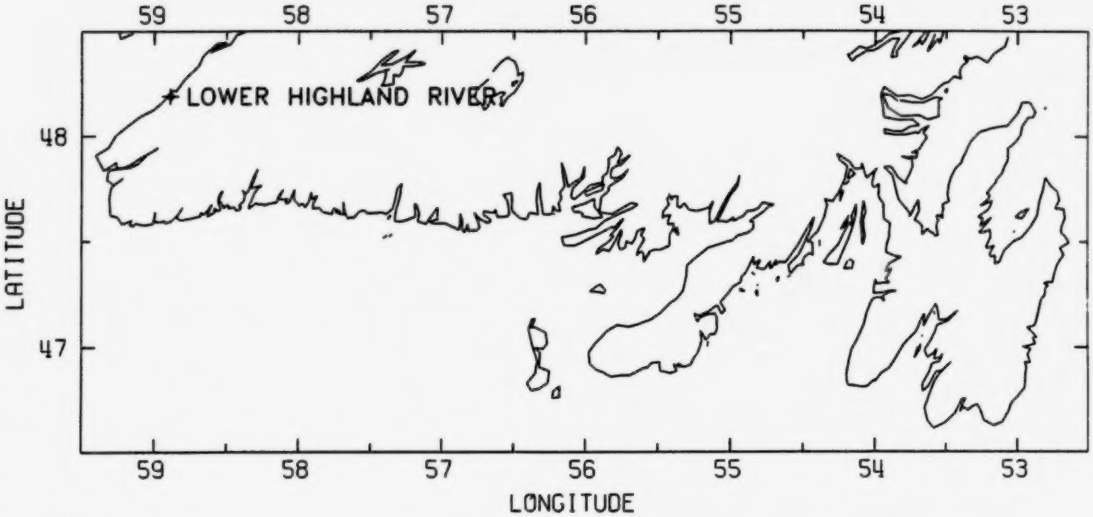
THERMOGRAPH DATA SUMMARY: LOWER HIGHLAND RIVER (190) 2002

STATION NAME:	LOWER HIGHLAND RIVER
STATION NUMBER:	190
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	3812
LATITUDE:	48.19° N
LONGITUDE:	58.89° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-JUN-2002 23:00 GMT
RECOVERY DATE/TIME:	15-OCT-2002 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	8.10	161	20.60	172	13.11	3.14	324.6	224.6	577
JUL-2002	13.30	202	20.60	182	17.67	2.02	547.8	423.8	744
AUG-2002	12.20	243	20.60	214	18.36	1.86	569.3	445.3	744
SEP-2002	9.20	273	20.60	247	13.69	2.26	410.6	290.6	720
OCT-2002	5.50	287	12.00	275	8.62	1.58	128.4	68.4	351
T.PERIOD	5.50	287	20.60	172	15.07	3.88	1980.7	1452.7	3136

Note: Maximum thermograph range is 20.6 °C.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LOWER HIGHLAND RIVER
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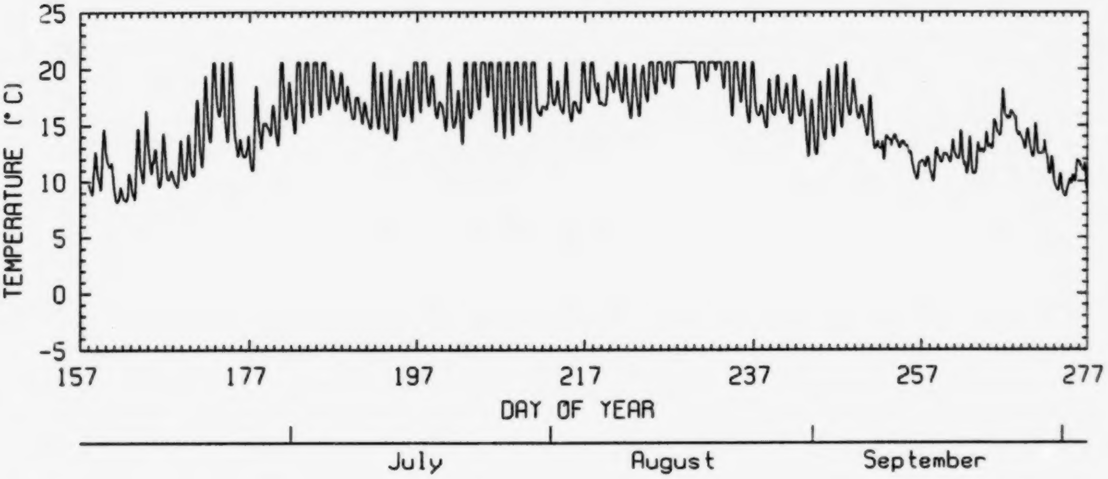
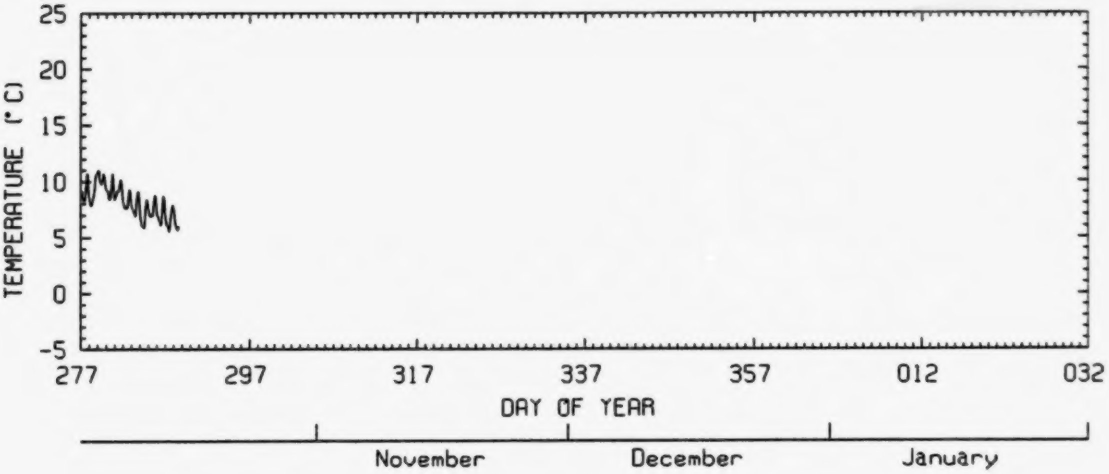
LATITUDE
LONGITUDE





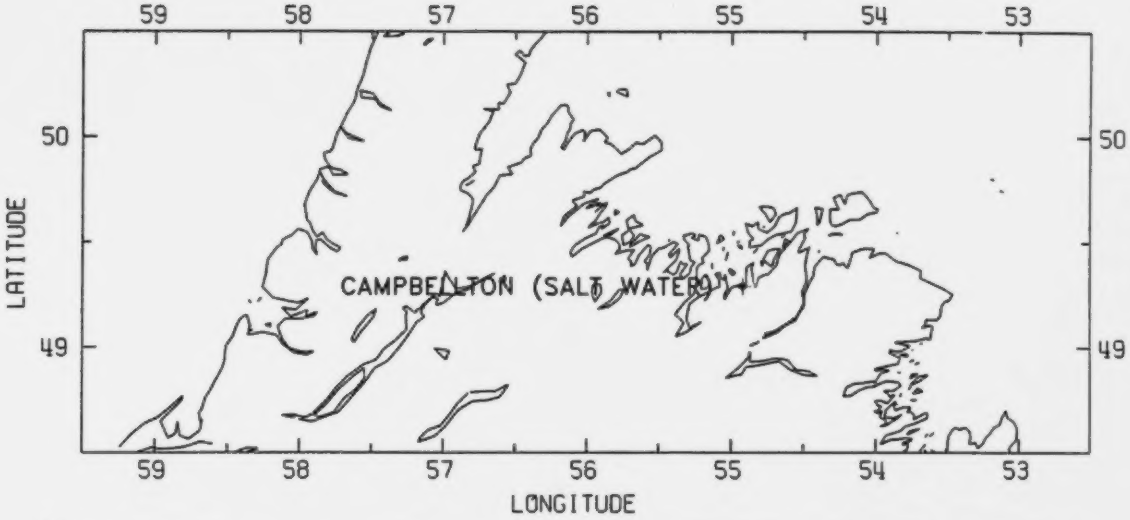
Start: 6-JUN-2002 End: 15-OCT-2002 Inst. S/N: 3812

THERMOGRAPH DATA SUMMARY: CAMPBELLTON (SALT WATER) (195) 2002

STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	6743
LATITUDE:	49.29° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-MAY-2002 20:00 GMT
RECOVERY DATE/TIME:	18-SEP-2002 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	-0.60	135	7.05	147	3.22	1.86	65.9	6.1	484
JUN-2002	1.45	153	10.70	166	7.03	1.88	210.8	90.8	720
JUL-2002	5.40	189	16.05	198	10.29	2.75	318.9	194.9	744
AUG-2002	9.10	225	18.80	236	13.62	2.19	422.1	298.1	744
SEP-2002	9.45	261	15.35	250	13.56	1.26	244.0	172.0	432
T.PERIOD	-0.60	135	18.80	236	9.69	4.30	1261.8	761.9	3124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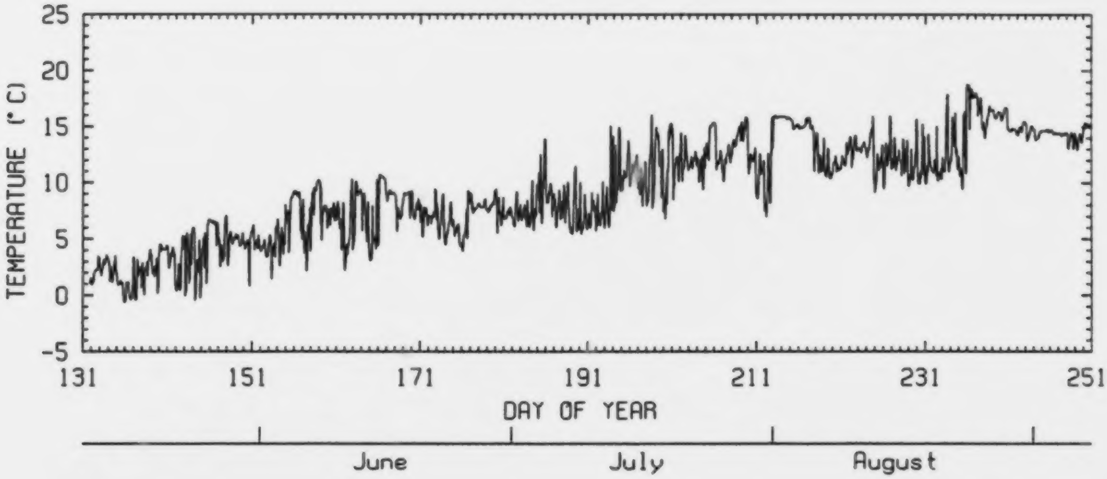
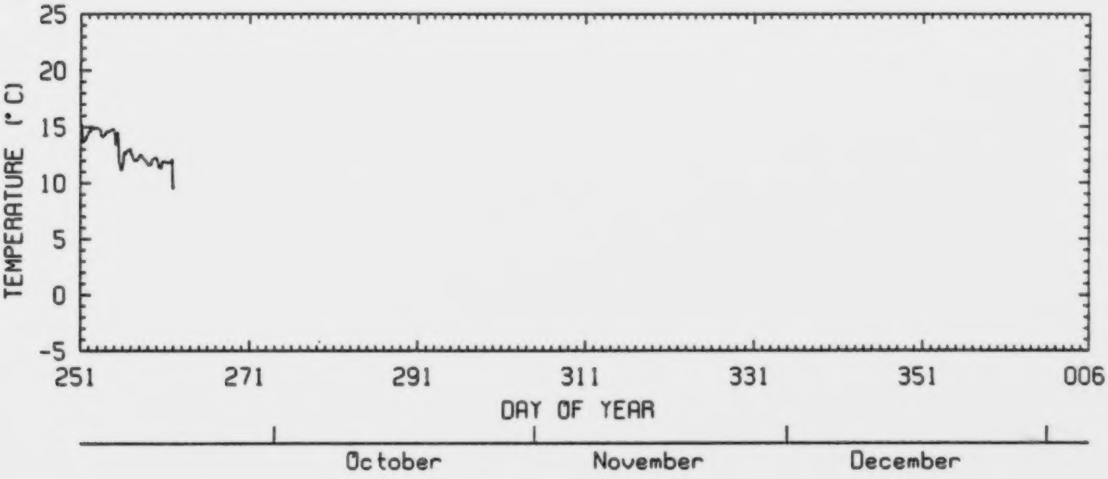
LATITUDE
CAMPBELLTON (SALT WATER)
LONGITUDE





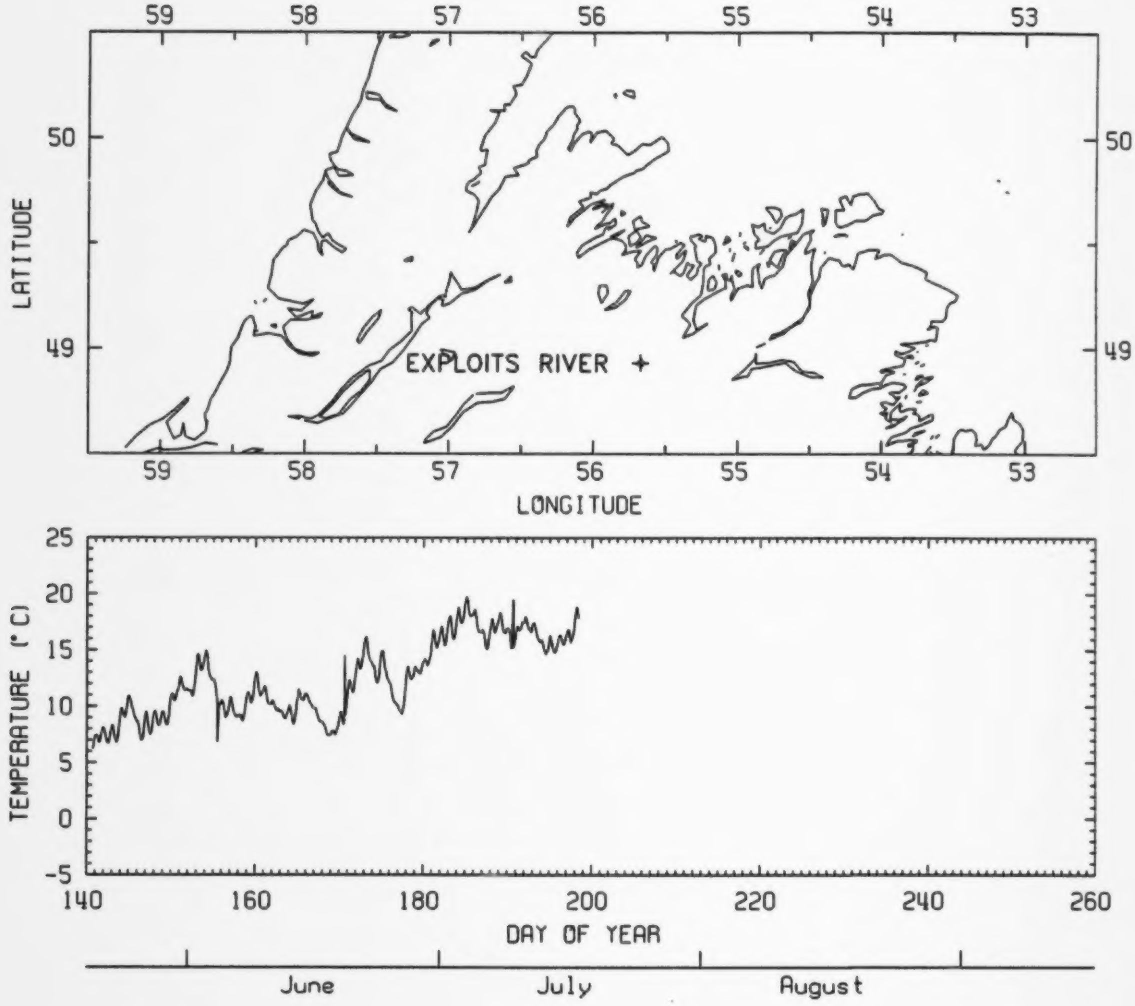
Start: 11-MAY-2002 End: 18-SEP-2002 Inst. S/N: 6743

THERMOGRAPH DATA SUMMARY: EXPLOITS RIVER (228) 2002

STATION NAME:	EXPLOITS RIVER
STATION NUMBER:	228
INSTRUMENT TYPE:	Seamon Mini (Hugrun)
INSTRUMENT S/N:	6245
LATITUDE:	48.93° N
LONGITUDE:	55.67° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	20-MAY-2002 17:00 GMT
RECOVERY DATE/TIME:	17-JUL-2002 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2002	6.20	140	12.60	151	8.94	1.56	105.7	57.7	271
JUN-2002	6.80	155	16.80	181	11.34	2.17	340.2	220.2	720
JUL-2002	14.60	194	19.70	185	16.78	1.08	286.1	218.1	394
T.PERIOD	6.20	140	19.70	185	12.42	3.41	732.0	496.0	1385



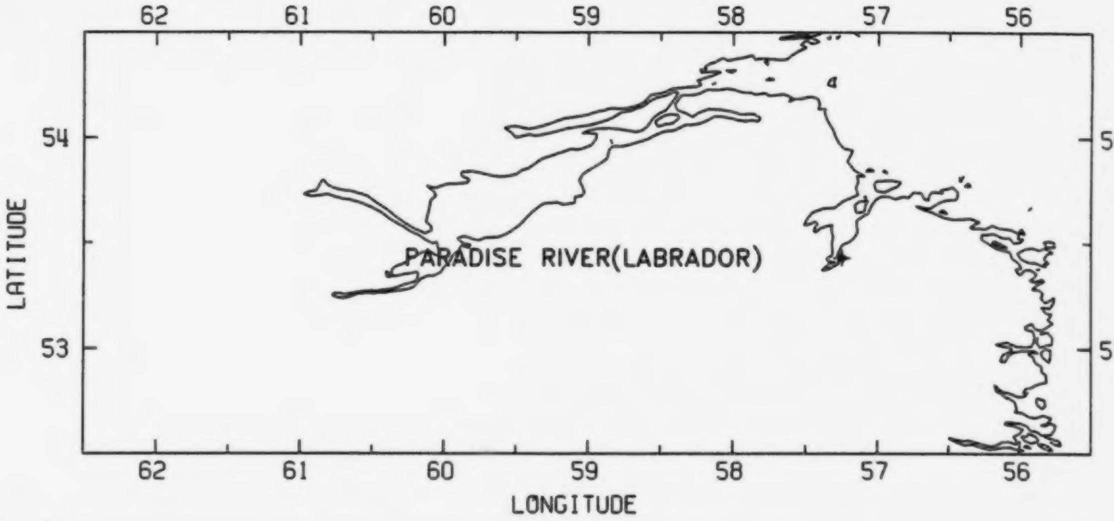
Start: 20-MAY-2002 End: 17-JUL-2002 Inst. S/N:6245

THERMOGRAPH DATA SUMMARY: PARADISE RIVER(LABRADOR) (229) 2002

STATION NAME:	PARADISE RIVER(LABRADOR)
STATION NUMBER:	229
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	7419
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-JUN-2002 18:00 GMT
RECOVERY DATE/TIME:	03-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	10.60	180	19.90	181	14.00	1.75	141.8	101.8	222
JUL-2002	11.80	195	24.00	184	17.56	2.67	544.3	420.3	744
AUG-2002	9.90	220	23.60	228	14.71	2.73	456.0	332.0	744
SEP-2002	11.50	244	19.50	245	15.22	2.28	46.5	34.5	61
T.PERIOD	9.90	220	24.00	184	15.84	2.98	1188.6	888.6	1771


PARADISE RIVER(LABRADOR)
LATITUDE
LONGITUDE
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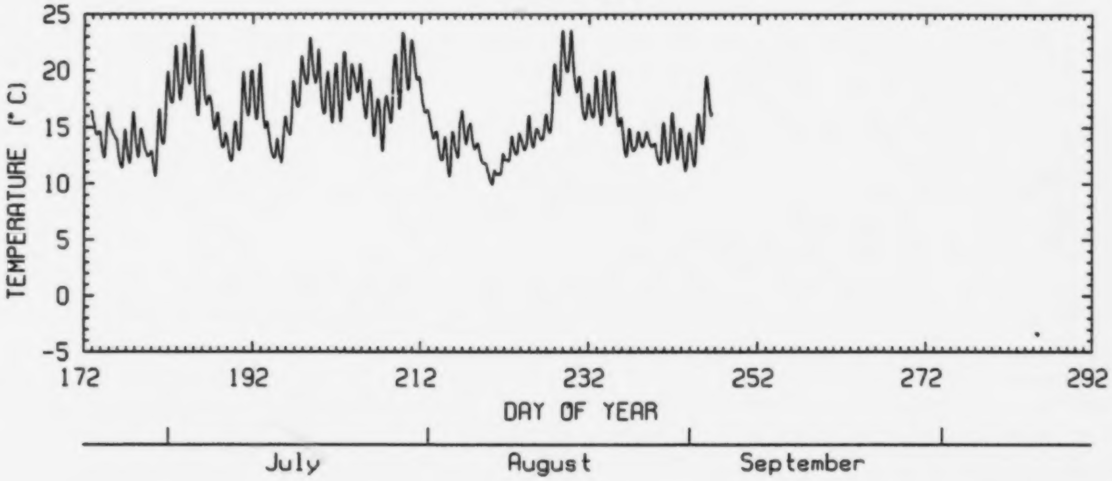


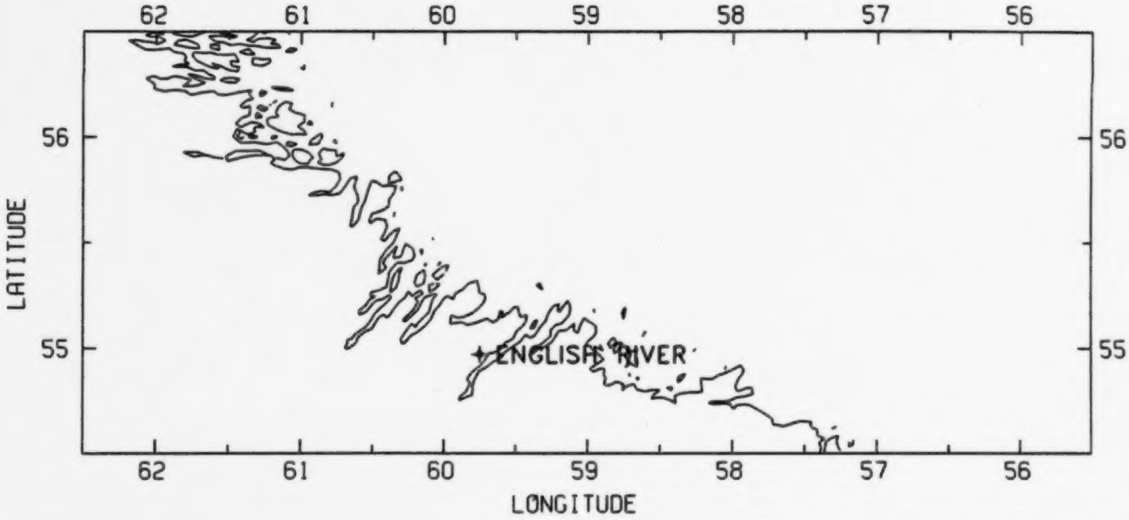
Start: 21-JUN-2002 End: 3-SEP-2002 Inst. S/N:7419

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER (245) 2002

STATION NAME:	ENGLISH RIVER
STATION NUMBER:	245
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007413
LATITUDE:	54.97° N
LONGITUDE:	59.75° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUL-2002 16:00 GMT
RECOVERY DATE/TIME:	16-SEP-2002 22:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	8.30	194	14.90	211	12.14	1.79	253.3	169.3	488
AUG-2002	11.20	222	18.10	229	13.82	1.56	428.4	304.4	744
SEP-2002	10.50	259	14.90	247	12.73	1.16	203.5	139.5	383
T.PERIOD	8.30	194	18.10	229	13.05	1.72	885.2	613.2	1615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LATITUDE
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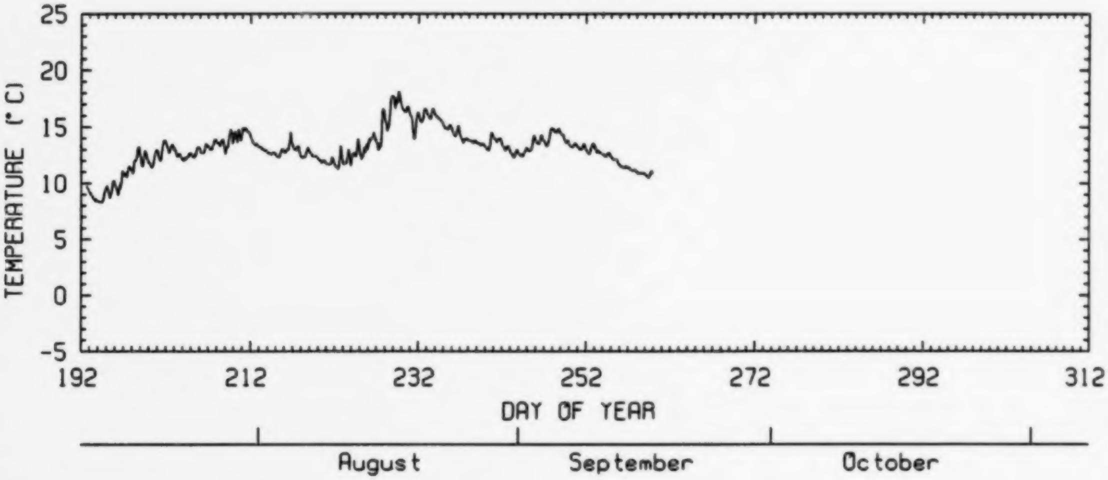
ENGLISH RIVER
LONGITUDE



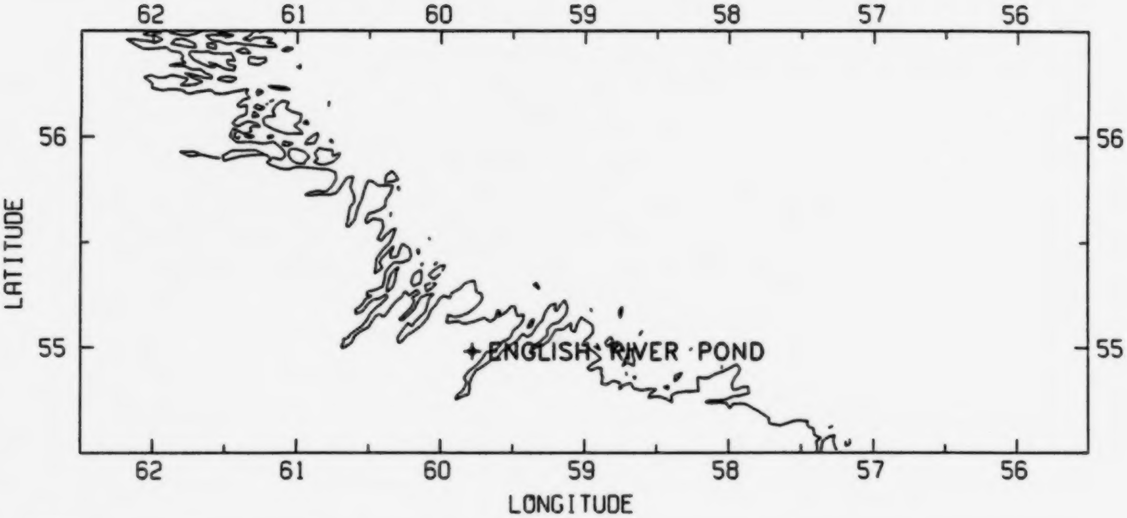
Start: 11-JUL-2002 End: 16-SEP-2002 Inst. S/N:7413

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER POND (271) 2002

STATION NAME:	ENGLISH RIVER POND
STATION NUMBER:	271
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007402
LATITUDE:	54.98° N
LONGITUDE:	59.78° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUL-2002 19:00 GMT
RECOVERY DATE/TIME:	25-SEP-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2002	8.40	194	15.70	211	12.80	1.36	240.2	164.2	437
AUG-2002	11.40	222	17.70	228	13.88	1.56	430.2	306.2	744
SEP-2002	9.90	264	14.80	247	12.00	1.35	299.7	199.7	593
T.PERIOD	8.40	194	17.70	228	12.98	1.66	970.1	670.1	1774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LATITUDE
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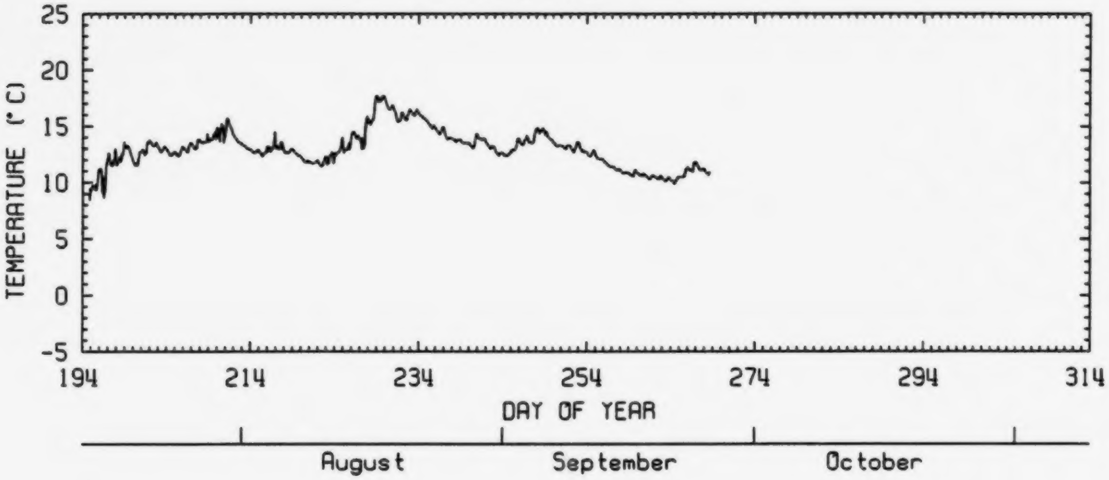
LONGITUDE



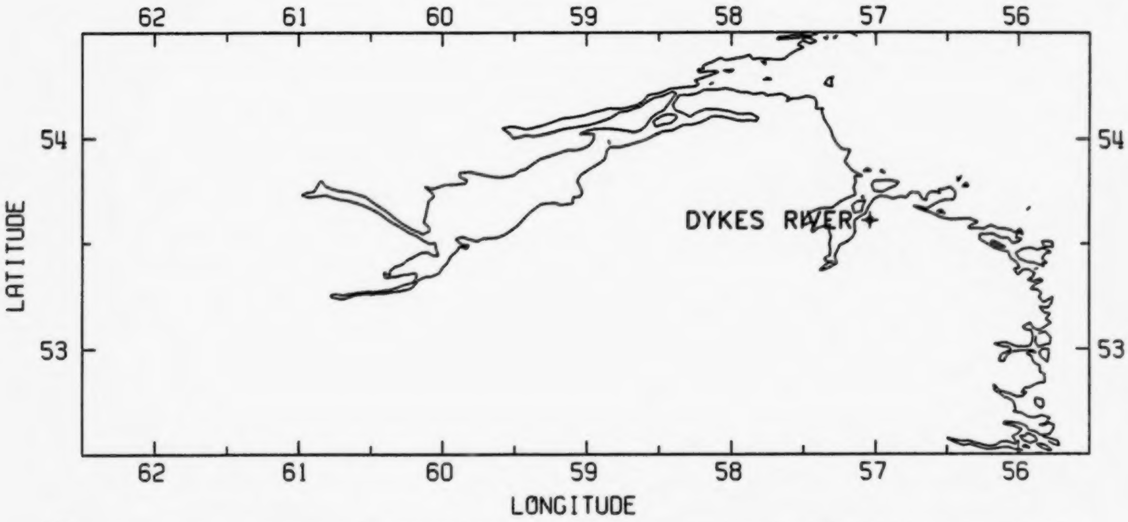
Start: 13-JUL-2002 End: 25-SEP-2002 Inst. S/N: 7402

THERMOGRAPH DATA SUMMARY: DYKES RIVER (274) 2002

STATION NAME:	DYKES RIVER
STATION NUMBER:	274
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007414
LATITUDE:	53.61° N
LONGITUDE:	57.04° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUN-2002 13:00 GMT
RECOVERY DATE/TIME:	30-SEP-2002 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	9.80	176	18.40	181	12.89	1.72	115.7	79.7	203
JUL-2002	12.10	189	24.00	209	17.80	2.46	551.9	427.9	744
AUG-2002	10.20	220	22.20	228	14.76	2.63	457.7	333.7	744
SEP-2002	4.90	273	20.30	248	12.14	3.31	362.2	242.2	713
T.PERIOD	4.90	273	24.00	209	14.77	3.57	1487.5	1083.5	2404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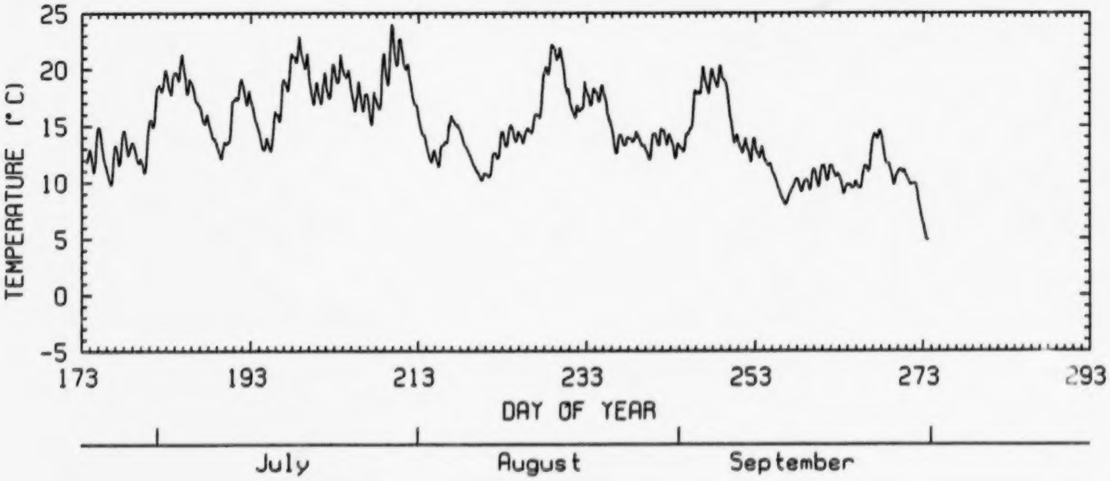
LATITUDE
LONGITUDE
DYKES RIVER



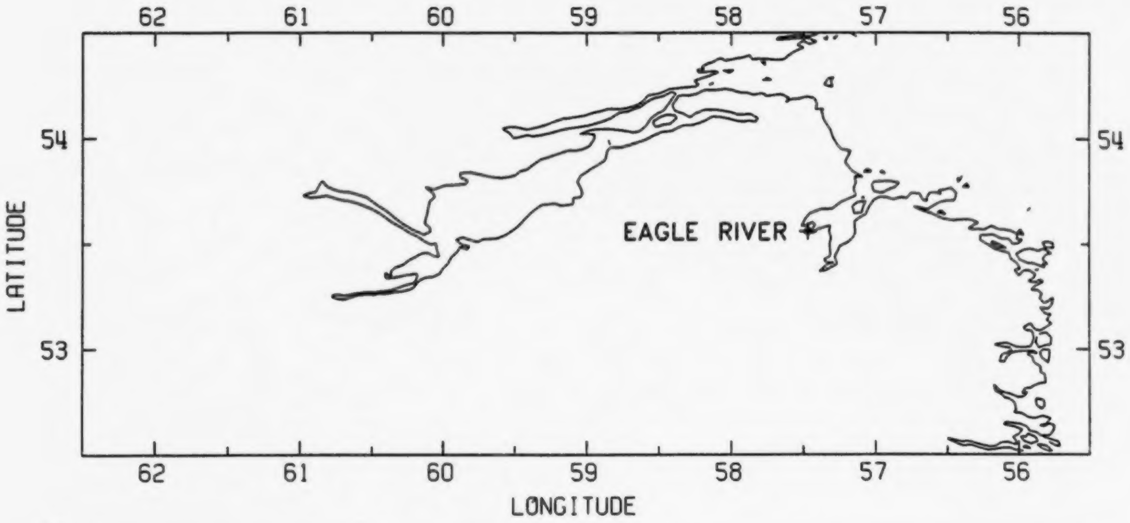
Start: 22-JUN-2002 End: 30-SEP-2002 Inst. S/N:7414

THERMOGRAPH DATA SUMMARY: EAGLE RIVER (275) 2002

STATION NAME:	EAGLE RIVER
STATION NUMBER:	275
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007415
LATITUDE:	53.56° N
LONGITUDE:	57.47° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	2 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-JUN-2002 19:00 GMT
RECOVERY DATE/TIME:	10-AUG-2002 02:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	13.60	177	17.10	181	14.54	0.70	101.8	73.8	149
JUL-2002	13.00	195	21.00	184	17.29	1.97	536.1	412.1	744
AUG-2002	12.70	221	17.20	213	14.85	1.24	146.8	106.8	219
T.PERIOD	12.70	221	21.00	184	16.44	2.11	784.6	592.6	1112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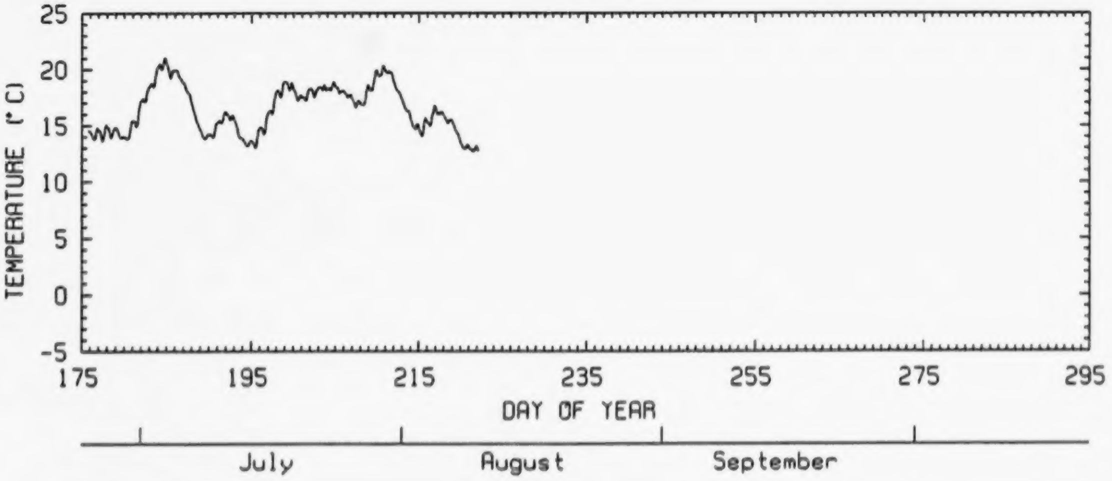
LATITUDE
LONGITUDE
EAGLE RIVER



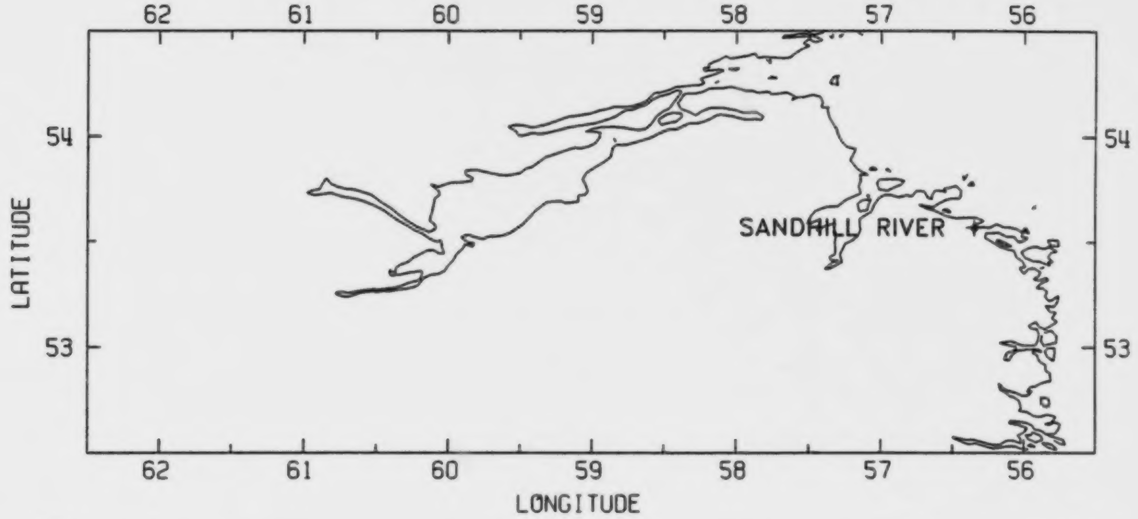
Start: 24-JUN-2002 End: 10-AUG-2002 Inst. S/N:7415

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (276) 2002

STATION NAME:	SANDHILL RIVER
STATION NUMBER:	276
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007403
LATITUDE:	53.57° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-JUN-2002 20:00 GMT
RECOVERY DATE/TIME:	11-SEP-2002 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2002	17.40	181	17.50	181	17.45	0.05	17.4	13.4	4
JUL-2002	13.60	195	21.30	184	17.77	1.70	550.9	426.9	744
AUG-2002	12.10	220	21.10	229	15.03	2.24	466.1	342.1	744
SEP-2002	11.50	254	20.20	248	15.21	2.46	165.8	121.8	253
T.PERIOD	11.50	254	21.30	184	16.23	2.45	1200.3	904.3	1745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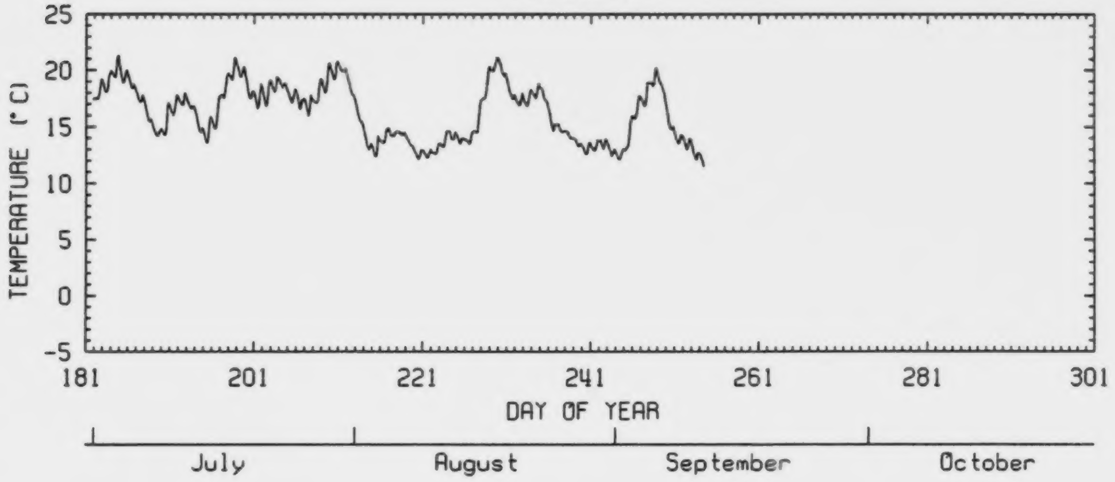
LATITUDE
LONGITUDE
SANDHILL RIVER



Start: 30-JUN-2002 End: 11-SEP-2002 Inst. S/N:7403

Long-Term Temperature Monitoring Program 2003, Newfoundland and Labrador Region

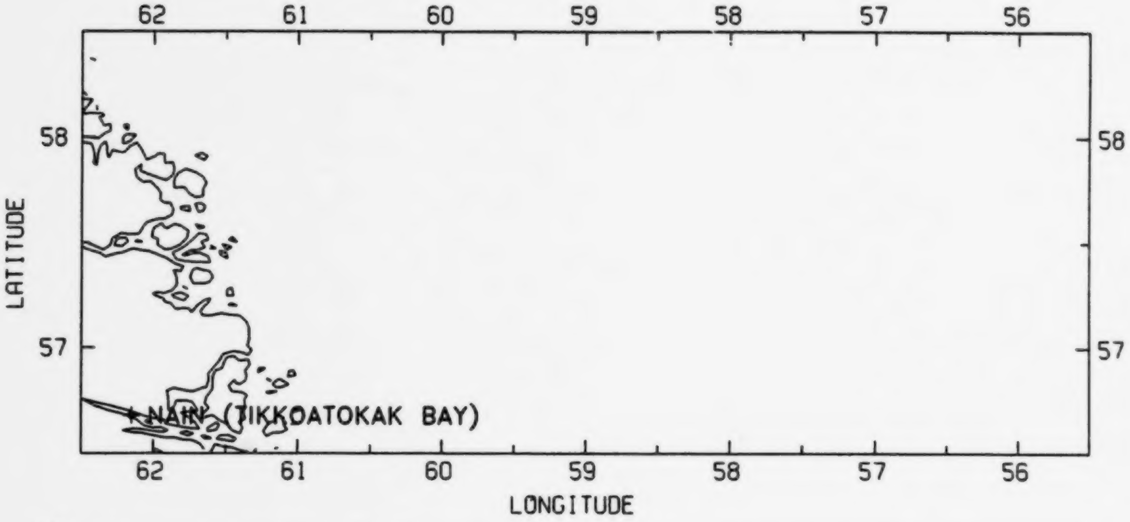
Appendix 1. Times Series Plots and Monthly Statistics from Unit Area 2Ha.

THERMOGRAPH DATA SUMMARY: NAIN (TIKKOATOKAK BAY) (139) 2003

STATION NAME:	NAIN (TIKKOATOKAK BAY)
STATION NUMBER:	139
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003266
LATITUDE:	56.68° N
LONGITUDE:	62.15° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2003 12:00 GMT
RECOVERY DATE/TIME:	29-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	2.25	186	7.50	211	3.61	0.72	108.3	3.0	708
AUG-2003	3.65	228	10.30	215	5.15	0.59	159.6	35.6	744
SEP-2003	4.85	244	6.90	272	5.74	0.39	166.8	50.8	688
T.PERIOD	2.25	186	10.30	215	4.83	1.07	434.7	89.4	2140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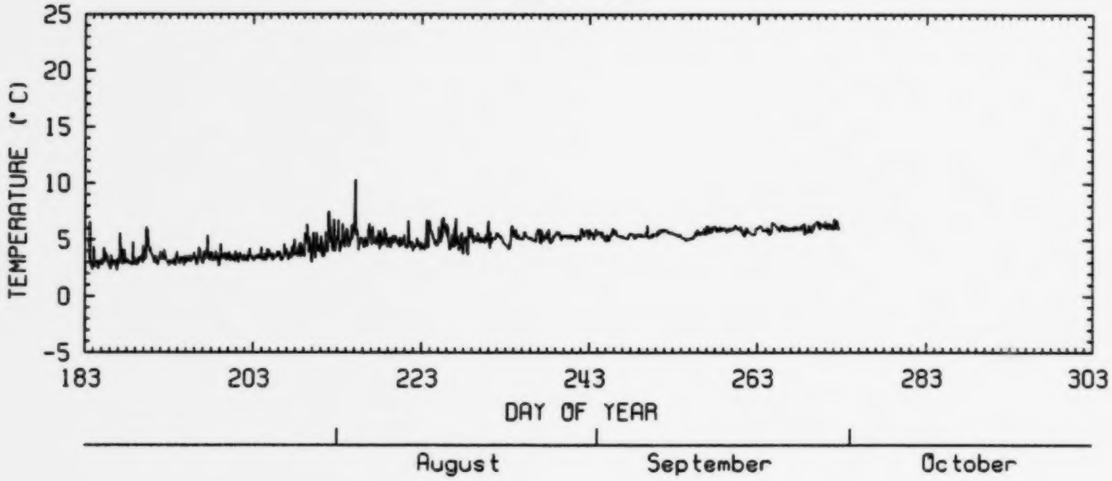
LATITUDE
NAIN (TIKKOATOKAK BAY)
LONGITUDE



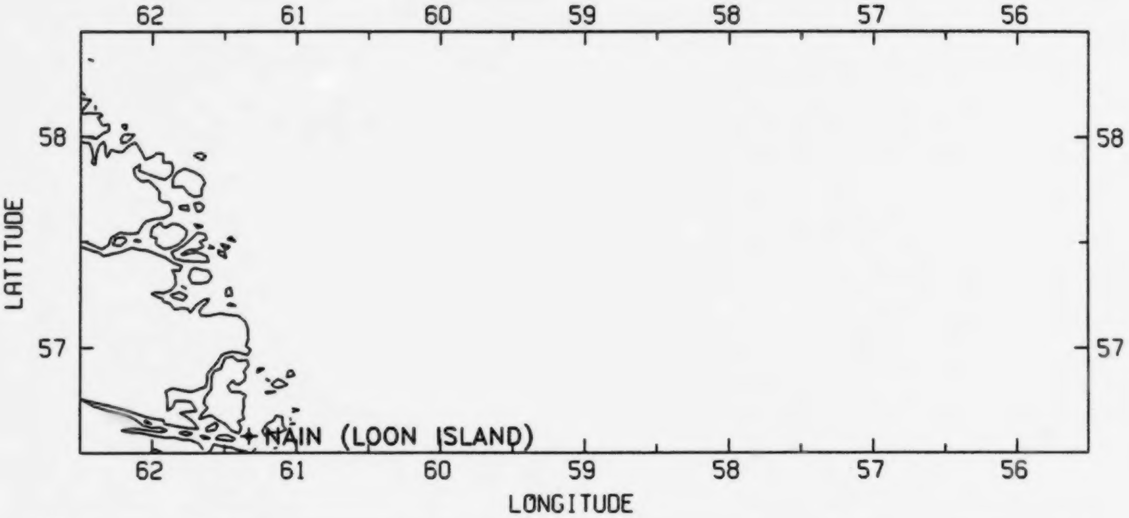
Start: 2-JUL-2003 End: 29-SEP-2003 Inst. S/N:3266

THERMOGRAPH DATA SUMMARY: NAIN (LOON ISLAND) (154) 2003

STATION NAME:	NAIN (LOON ISLAND)
STATION NUMBER:	154
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005475
LATITUDE:	56.58° N
LONGITUDE:	61.33° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2003 12:00 GMT
RECOVERY DATE/TIME:	29-SEP-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	2.60	184	7.40	207	4.36	1.05	130.2	18.0	708
AUG-2003	4.60	216	7.75	221	5.82	0.52	180.5	56.5	744
SEP-2003	5.00	256	6.30	264	5.54	0.16	160.7	44.7	687
T.PERIOD	2.60	184	7.75	221	5.25	0.93	471.4	119.2	2139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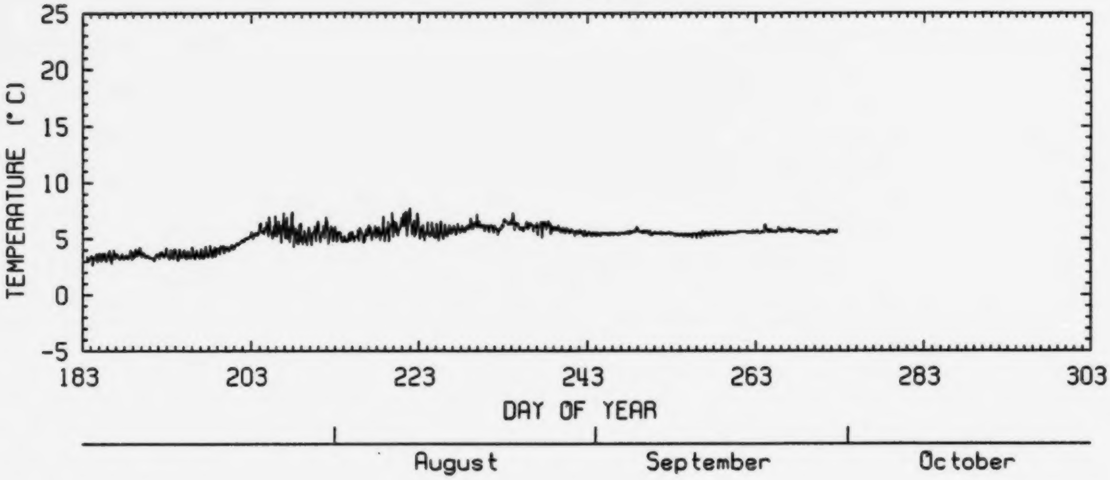
LATITUDE
NAIN (LOON ISLAND)
LONGITUDE



Start: 2-JUL-2003 End: 29-SEP-2003 Inst. S/N:5475

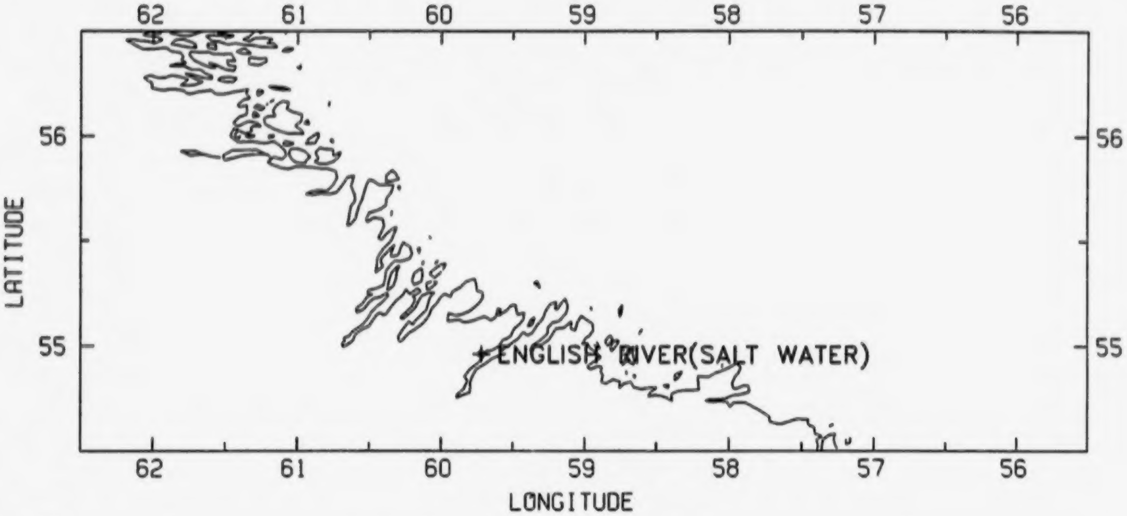
Appendix 2. Time Series Plots and Monthly Statistics from Unit Area 2Ja.

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER (SALT WATER) (247) 2003

STATION NAME:	ENGLISH RIVER(SALT WATER)
STATION NUMBER:	247
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009363
LATITUDE:	54.96° N
LONGITUDE:	59.72° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2003 16:00 GMT
RECOVERY DATE/TIME:	14-SEP-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	12.90	178	15.20	181	13.78	0.61	54.6	38.6	80
JUL-2003	4.10	197	19.10	208	12.74	2.72	395.1	271.1	744
AUG-2003	5.80	225	18.40	221	12.68	2.36	393.0	269.0	744
SEP-2003	7.80	253	10.90	248	9.54	0.58	133.5	77.5	324
T.PERIOD	4.10	197	19.10	208	12.21	2.59	976.2	656.2	1892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LATITUDE
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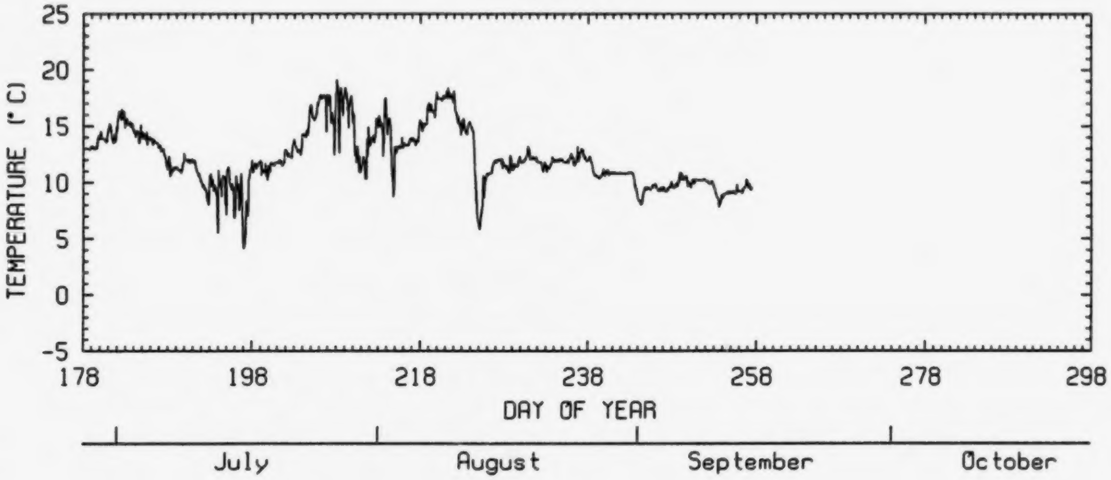
+ENGLISH RIVER(SALT WATER)
LONGITUDE



Start: 27-JUN-2003 End: 14-SEP-2003 Inst. S/N:9363

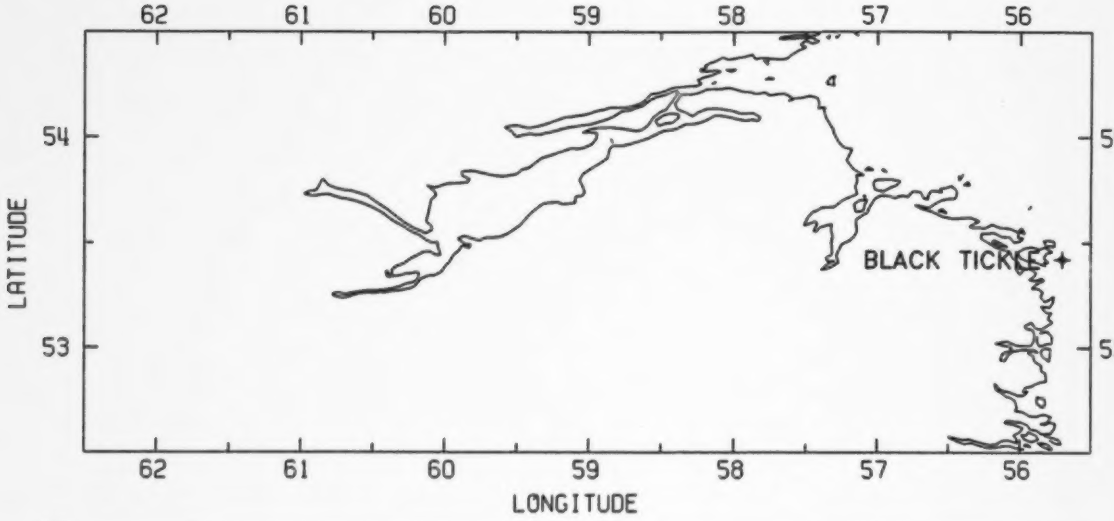
Appendix 3. Time Series Plots and Monthly Statistics from Unit Area 2Jm

THERMOGRAPH DATA SUMMARY: BLACK TICKLE (222) 2003

STATION NAME:	BLACK TICKLE
STATION NUMBER:	222
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006788
LATITUDE:	53.42° N
LONGITUDE:	55.70° W
INSTRUMENT DEPTH:	24 m
WATER DEPTH:	26 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUL-2003 16:00 GMT
RECOVERY DATE/TIME:	26-SEP-2003 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	-0.90	210	1.10	211	-0.24	0.35	0.2	0.0	152
AUG-2003	-0.35	213	9.60	230	4.27	2.96	132.3	42.0	744
SEP-2003	4.00	250	9.05	245	6.34	0.97	164.6	60.6	622
T.PERIOD	-0.90	210	9.60	230	4.66	2.89	297.1	102.6	1518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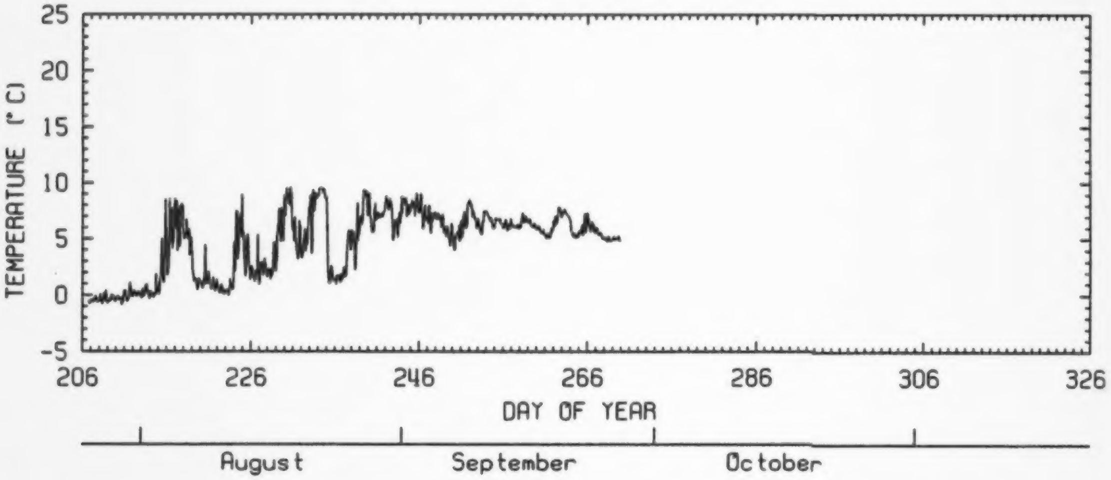
LATITUDE
LONGITUDE
BLACK TICKLE



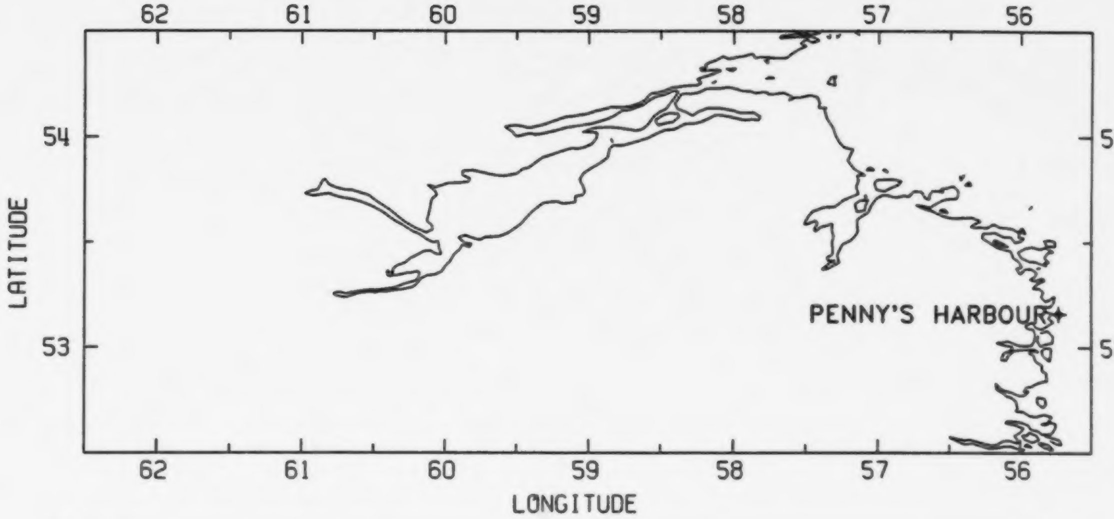
Start: 25-JUL-2003 End: 26-SEP-2003 Inst. S/N:6788

THERMOGRAPH DATA SUMMARY: PENNY'S HARBOUR (237) 2003

STATION NAME:	PENNY'S HARBOUR
STATION NUMBER:	237
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003287
LATITUDE:	53.16° N
LONGITUDE:	55.73° W
INSTRUMENT DEPTH:	27 m
WATER DEPTH:	29 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-JUL-2003 23:00 GMT
RECOVERY DATE/TIME:	26-SEP-2003 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	-0.60	212	-0.10	212	-0.43	0.12	0.0	0.0	25
AUG-2003	-0.70	213	8.80	234	1.44	1.89	46.3	4.3	744
SEP-2003	1.45	250	7.40	255	4.65	1.30	120.9	22.6	621
T.PERIOD	-0.70	213	8.80	234	2.84	2.32	167.1	26.9	1390



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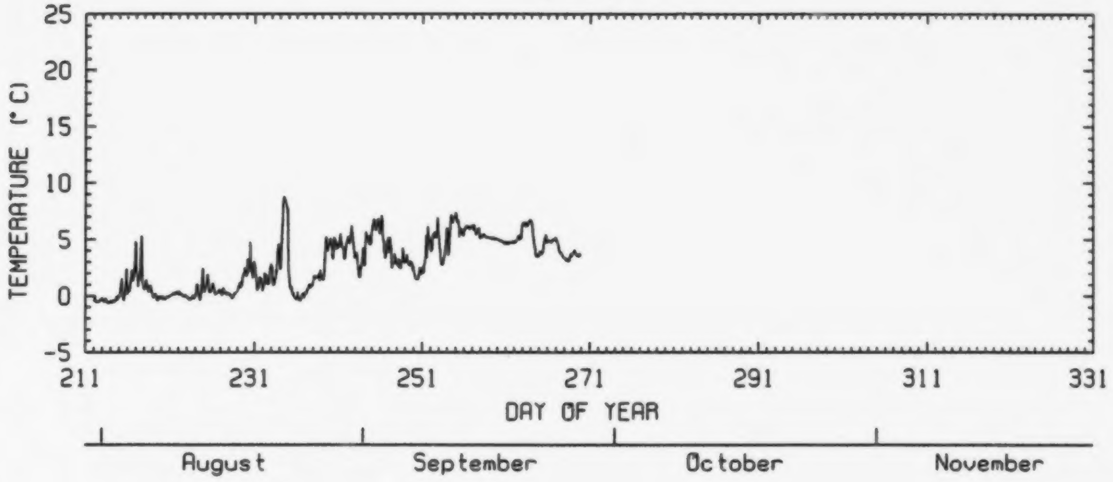
LATITUDE
LONGITUDE
PENNY'S HARBOUR



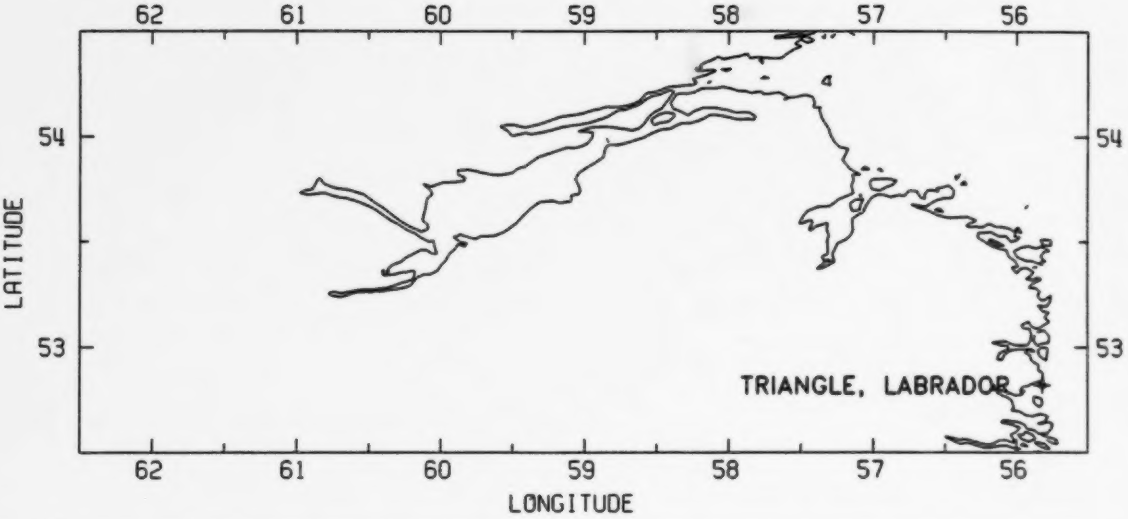
Start: 30-JUL-2003 End: 26-SEP-2003 Inst. S/N:3287

THERMOGRAPH DATA SUMMARY: TRIANGLE, LABRADOR (265) 2003

STATION NAME:	TRIANGLE, LABRADOR
STATION NUMBER:	265
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A09
LATITUDE:	52.82° N
LONGITUDE:	55.82° W
INSTRUMENT DEPTH:	25 m
WATER DEPTH:	27 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-JUL-2003 16:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	-0.75	206	7.70	210	0.50	1.13	10.2	0.0	368
AUG-2003	-0.60	214	9.45	234	2.69	2.75	83.8	19.8	744
SEP-2003	2.50	244	9.55	254	6.17	1.27	104.4	36.4	395
T.PERIOD	-0.75	206	9.55	254	3.07	2.95	198.4	56.1	1507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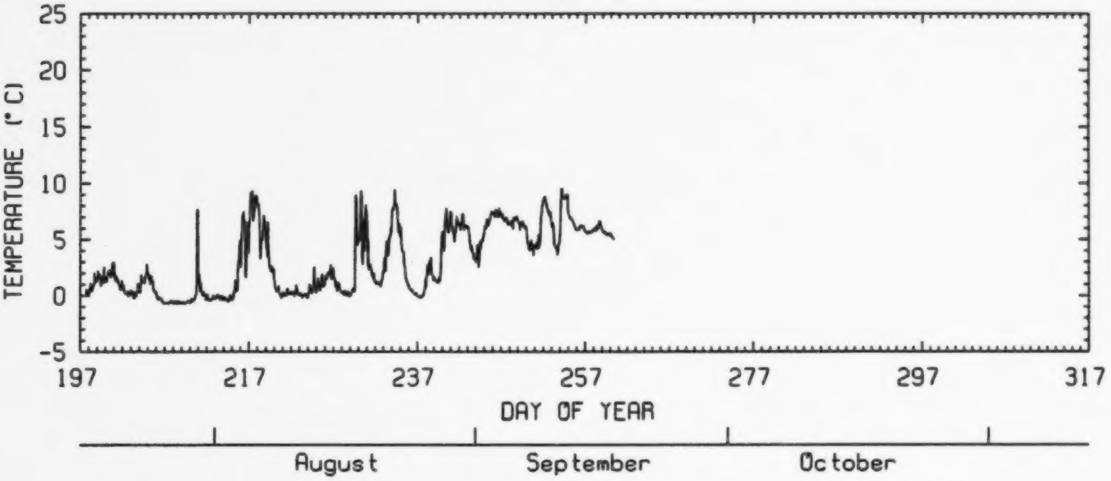
LATITUDE
LONGITUDE
TRIANGLE, LABRADOR



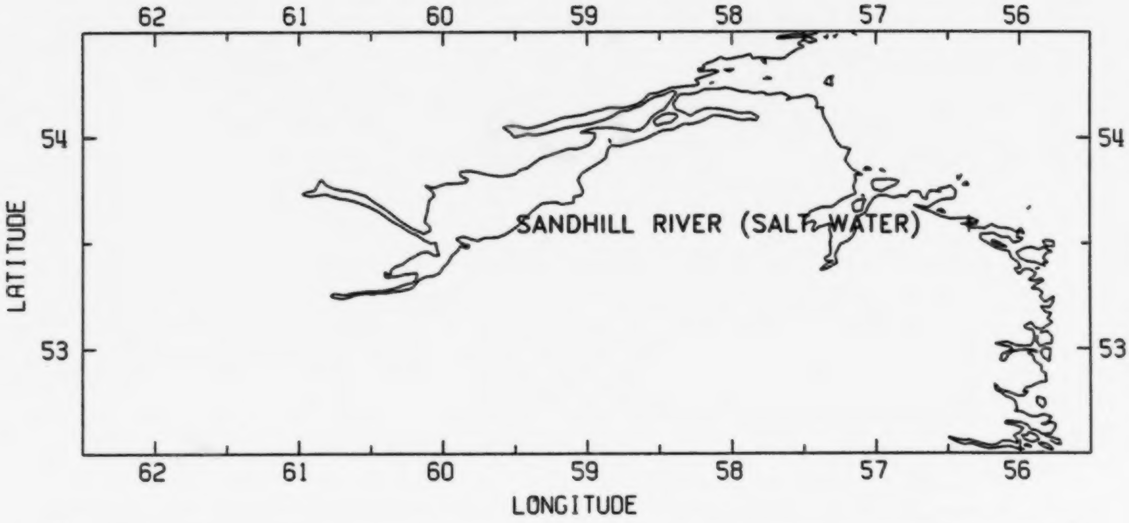
Start: 16-JUL-2003 End: 17-SEP-2003 Inst. S/N:8A09

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (SALT WATER) (277) 2003

STATION NAME:	SANDHILL RIVER (SALT WATER)
STATION NUMBER:	277
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009365
LATITUDE:	53.59° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	5 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUL-2003 15:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	8.60	211	21.00	205	15.36	2.87	290.3	214.3	441
AUG-2003	10.60	243	18.90	221	13.03	1.52	403.9	279.9	744
SEP-2003	8.70	254	17.50	259	10.93	1.43	187.6	119.6	398
T.PERIOD	8.60	211	21.00	205	13.15	2.55	881.8	613.8	1583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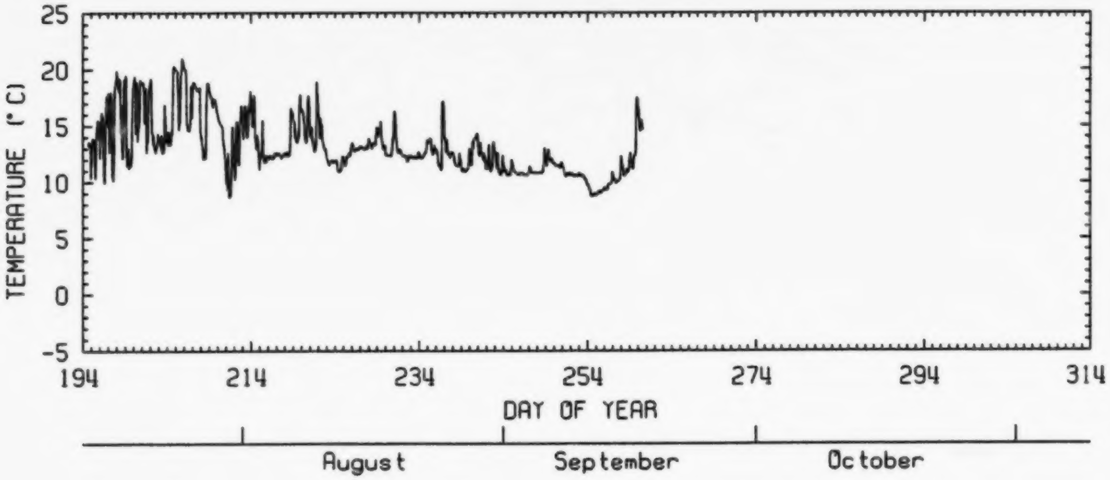
LATITUDE
LONGITUDE
SANDHILL RIVER (SALT WATER)



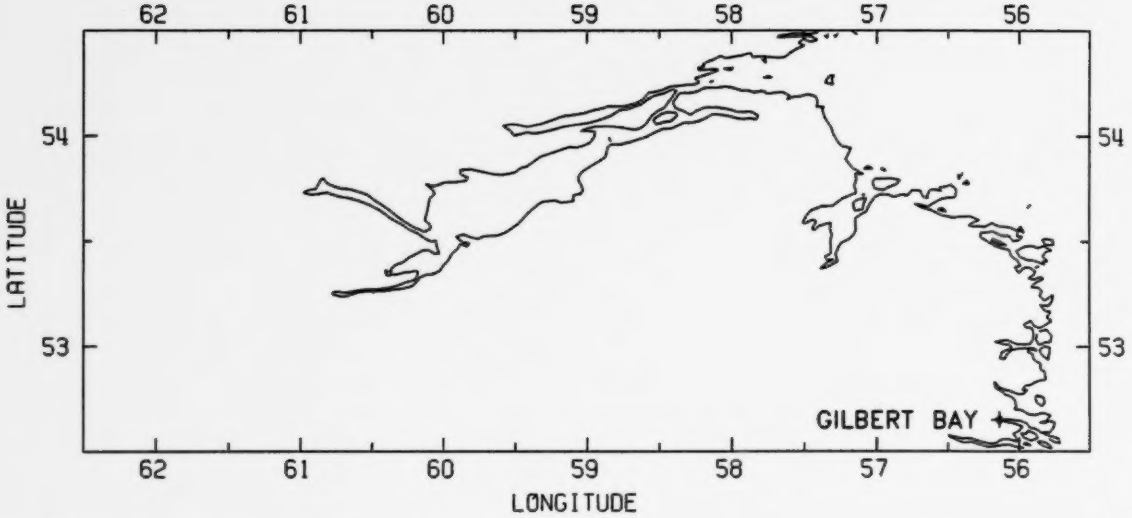
Start: 13-JUL-2003 End: 17-SEP-2003 Inst. S/N:9365

THERMOGRAPH DATA SUMMARY: GILBERT BAY (278) 2003

STATION NAME:	GILBERT BAY
STATION NUMBER:	278
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003808
LATITUDE:	52.65° N
LONGITUDE:	56.14° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JUL-2003 21:00 GMT
RECOVERY DATE/TIME:	25-OCT-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	7.30	183	17.50	198	11.61	2.29	357.7	233.7	723
AUG-2003	9.50	213	17.60	222	12.85	1.09	398.4	274.4	744
SEP-2003	9.60	272	15.50	260	11.49	0.81	344.7	224.7	720
OCT-2003	6.00	296	11.20	274	8.37	1.35	208.6	108.6	593
T.PERIOD	6.00	296	17.60	222	11.22	2.18	1309.5	841.5	2780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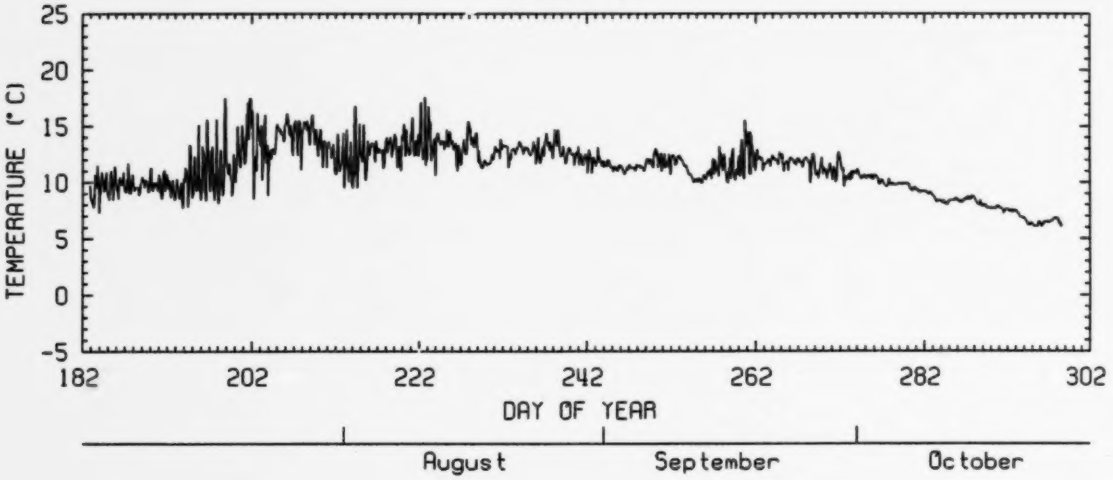
LATITUDE
LONGITUDE
GILBERT BAY



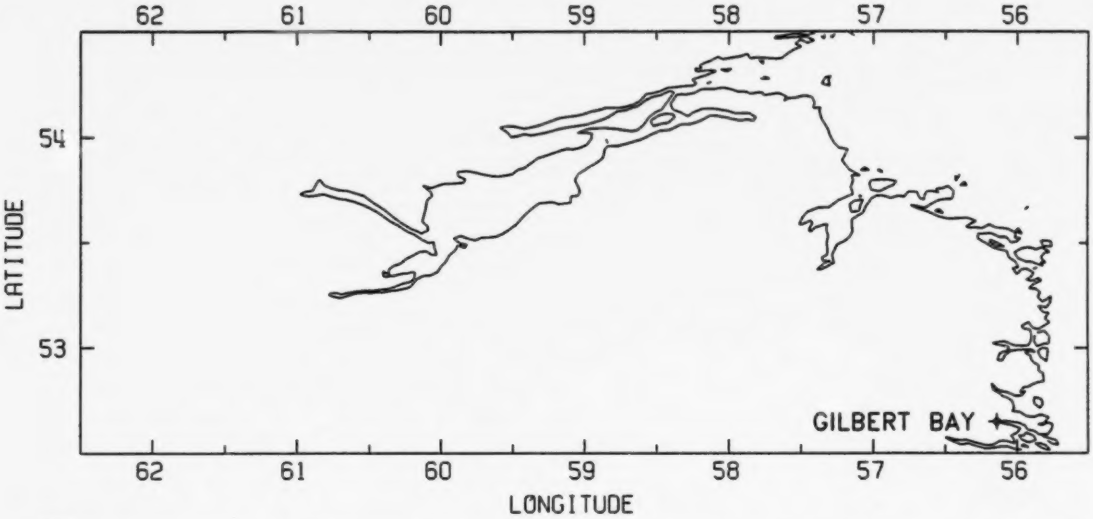
Start: 1-JUL-2003 End: 25-OCT-2003 Inst. S/N:3808

THERMOGRAPH DATA SUMMARY: GILBERT BAY (278) 2003

STATION NAME:	GILBERT BAY
STATION NUMBER:	278
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006434
LATITUDE:	52.65° N
LONGITUDE:	56.14° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2003 12:00 GMT
RECOVERY DATE/TIME:	25-OCT-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	0.20	183	4.00	196	2.18	1.04	64.4	0.0	708
AUG-2003	2.50	213	10.20	243	6.41	1.77	198.8	77.0	744
SEP-2003	8.10	259	10.20	245	8.86	0.57	265.7	145.7	720
OCT-2003	6.10	296	10.20	276	8.00	1.07	199.5	99.5	593
T.PERIOD	0.20	183	10.20	243	6.31	2.85	728.4	322.1	2765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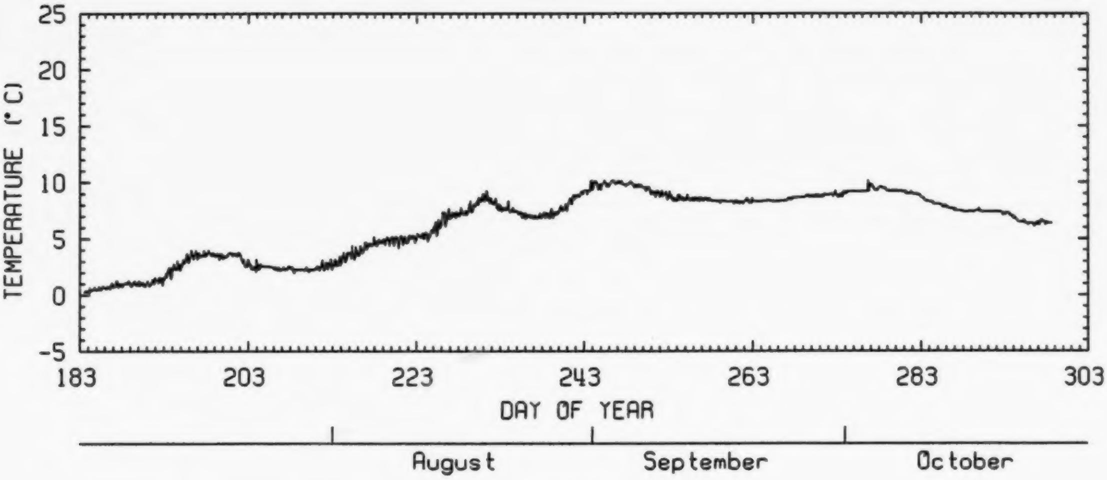
LATITUDE
LONGITUDE
GILBERT BAY



Start: 2-JUL-2003 End: 25-OCT-2003 Inst. S/N:6434

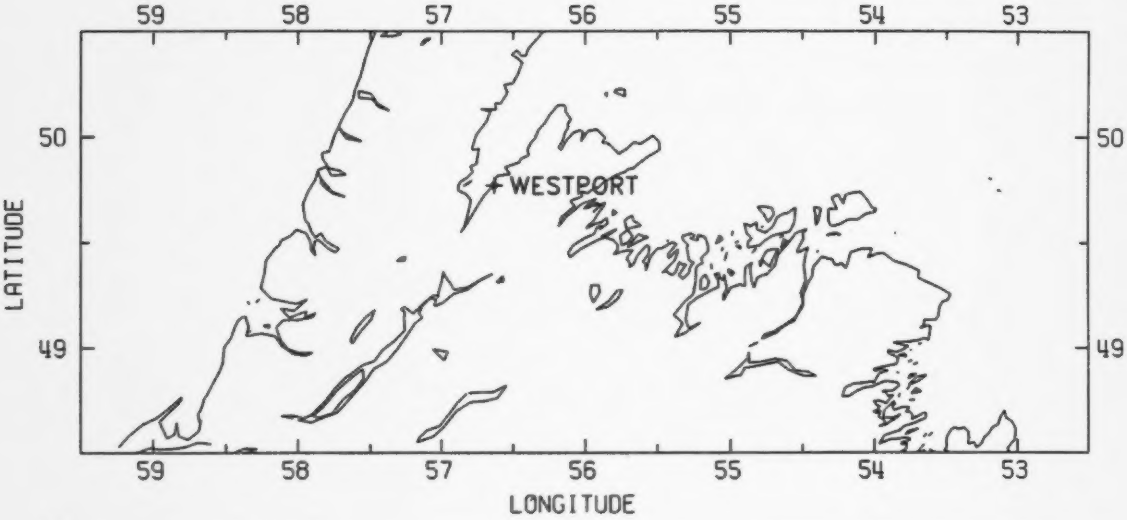
Appendix 4. Time Series Plots and Monthly Statistics from Unit Area 3Kd

THERMOGRAPH DATA SUMMARY: WESTPORT (105) 2003

STATION NAME:	WESTPORT
STATION NUMBER:	105
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006646
LATITUDE:	49.77° N
LONGITUDE:	56.63° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-MAY-2003 22:00 GMT
RECOVERY DATE/TIME:	29-OCT-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-0.50	148	2.65	151	0.98	0.98	3.1	0.0	74
JUN-2003	-0.40	156	9.45	180	4.05	2.47	121.4	28.7	720
JUL-2003	2.90	182	16.45	203	10.36	2.48	321.0	197.0	744
AUG-2003	2.70	240	17.20	224	12.35	3.23	382.8	258.8	744
SEP-2003	4.45	246	13.95	273	11.50	2.30	344.9	224.9	720
OCT-2003	4.10	302	14.00	274	8.05	1.44	231.8	115.8	685
T.PERIOD	-0.50	148	17.20	224	9.13	4.01	1405.0	825.2	3687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LATITUDE
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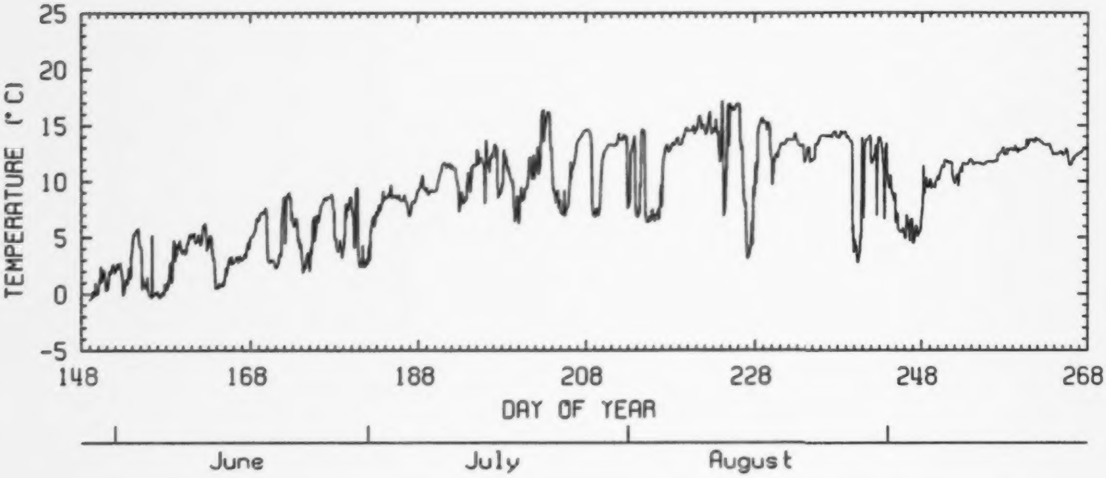
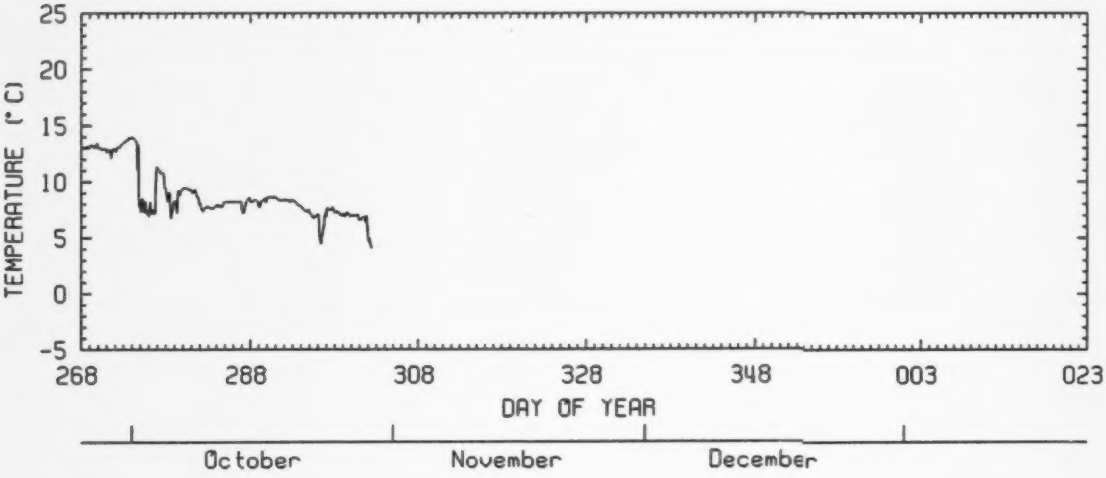
LONGITUDE





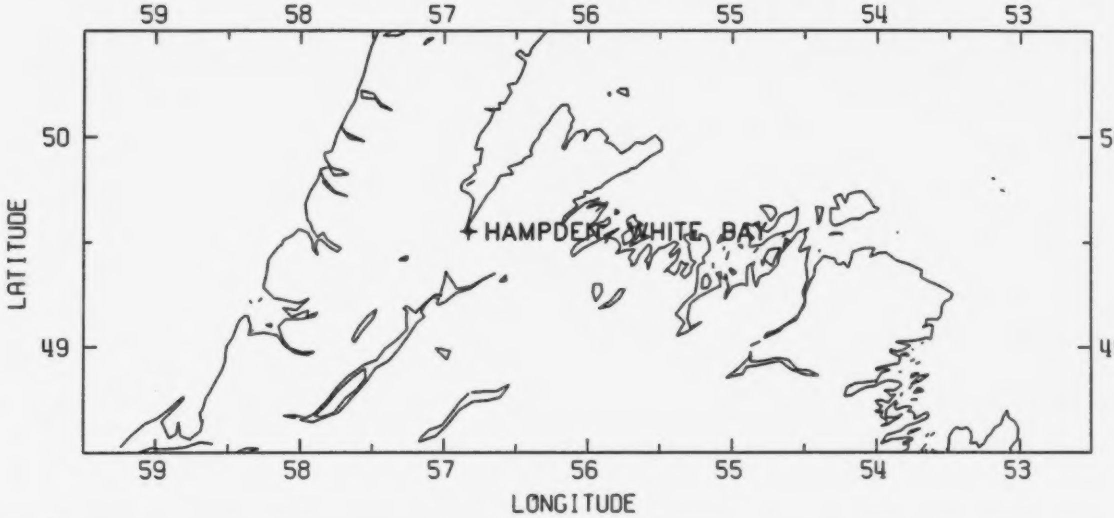
Start:28-MAY-2003 End:29-OCT-2003 Inst. S/N:6646

THERMOGRAPH DATA SUMMARY: HAMPDEN, WHITE BAY (179) 2003

STATION NAME:	HAMPDEN, WHITE BAY
STATION NUMBER:	179
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007818
LATITUDE:	49.55° N
LONGITUDE:	56.83° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2003 18:00 GMT
RECOVERY DATE/TIME:	08-NOV-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	-0.40	173	6.80	176	2.64	1.98	48.3	5.6	414
JUL-2003	2.80	199	14.00	206	8.17	2.41	253.2	129.4	744
AUG-2003	1.30	243	14.85	219	8.30	3.89	257.2	142.4	744
SEP-2003	0.25	245	13.25	265	7.93	3.62	237.8	130.6	720
OCT-2003	0.15	302	9.70	276	4.97	2.02	154.1	42.7	744
NOV-2003	-0.15	312	3.15	310	1.27	0.86	9.9	0.0	185
T.PERIOD	-0.40	173	14.85	219	6.47	3.70	960.6	450.8	3551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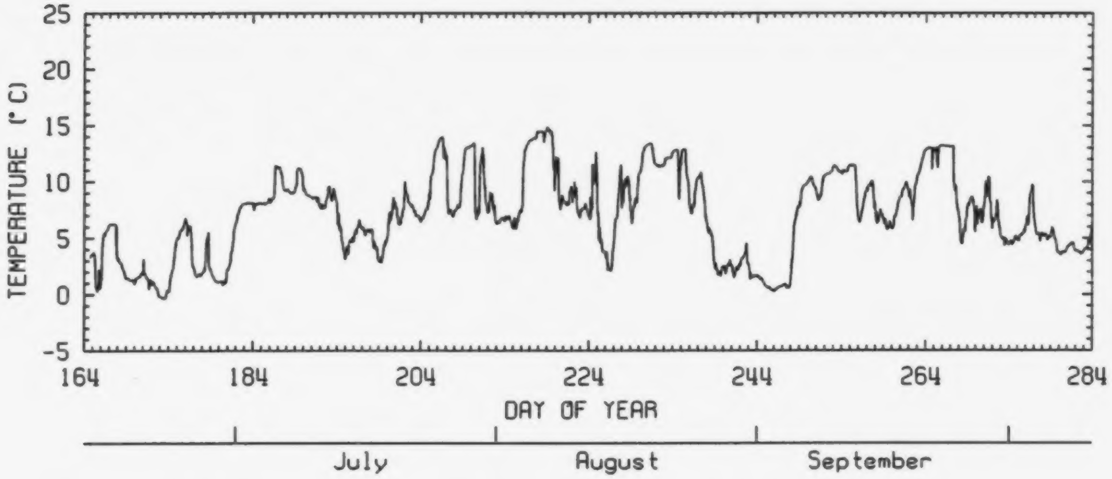
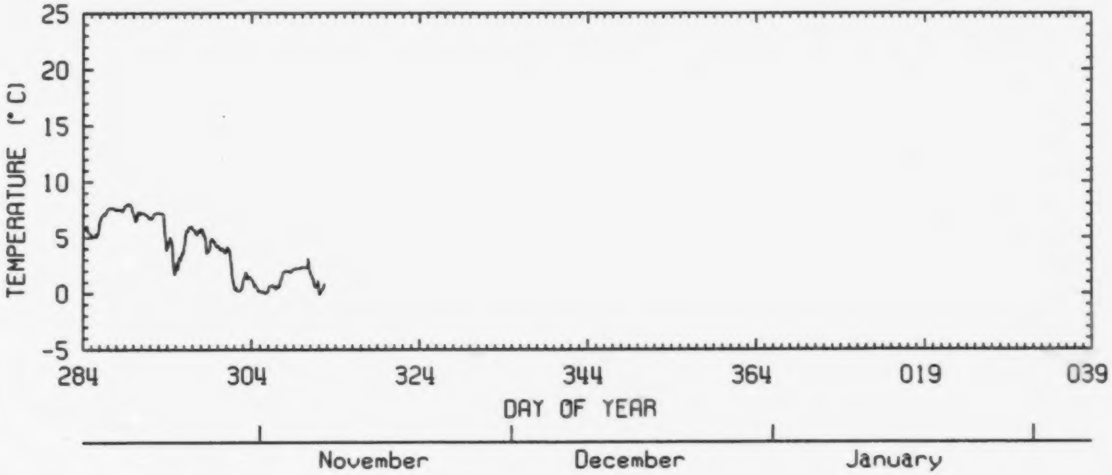
LATITUDE
HAMPDEN, WHITE BAY
LONGITUDE





Start: 13-JUN-2003 End: 8-NOV-2003 Inst. S/N: 7818

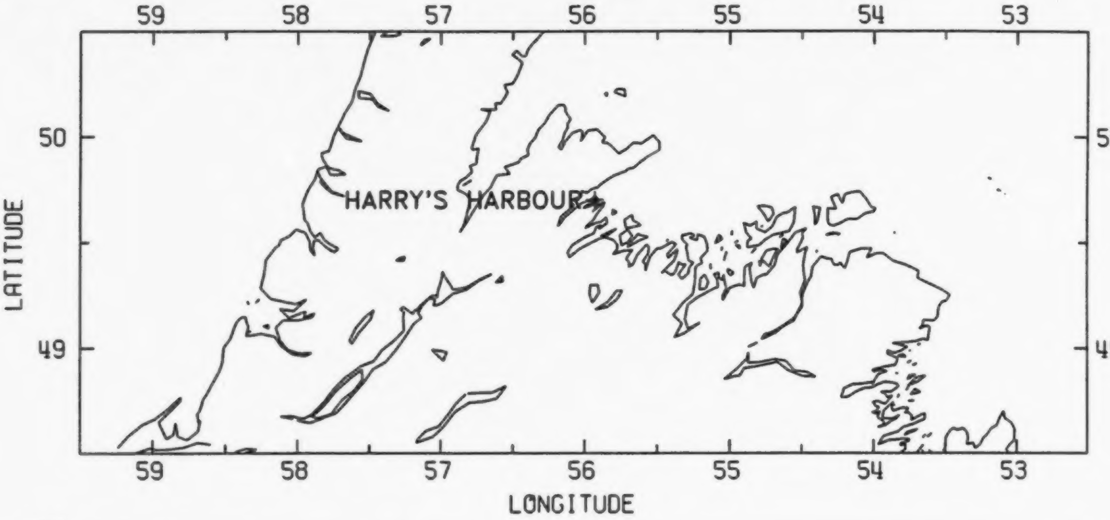
Appendix 5. Time Series Plot and Monthly Statistics from Unit Area 3Kh

THERMOGRAPH DATA SUMMARY: HARRY'S HARBOUR (126) 2003

STATION NAME:	HARRY'S HARBOUR
STATION NUMBER:	126
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007927
LATITUDE:	49.70° N
LONGITUDE:	55.93° W
INSTRUMENT DEPTH:	18 m
WATER DEPTH:	18 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUN-2003 13:00 GMT
RECOVERY DATE/TIME:	21-OCT-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	3.40	173	10.05	181	6.51	1.70	57.1	21.5	203
JUL-2003	2.60	192	14.40	204	9.59	1.69	297.3	173.3	744
AUG-2003	6.20	239	16.70	224	12.65	1.95	392.3	268.3	744
SEP-2003	7.30	246	14.20	261	11.67	1.41	350.1	230.1	720
OCT-2003	3.45	277	12.90	275	8.79	1.69	183.6	99.6	493
T.PERIOD	2.60	192	16.70	224	10.54	2.50	1280.3	792.7	2904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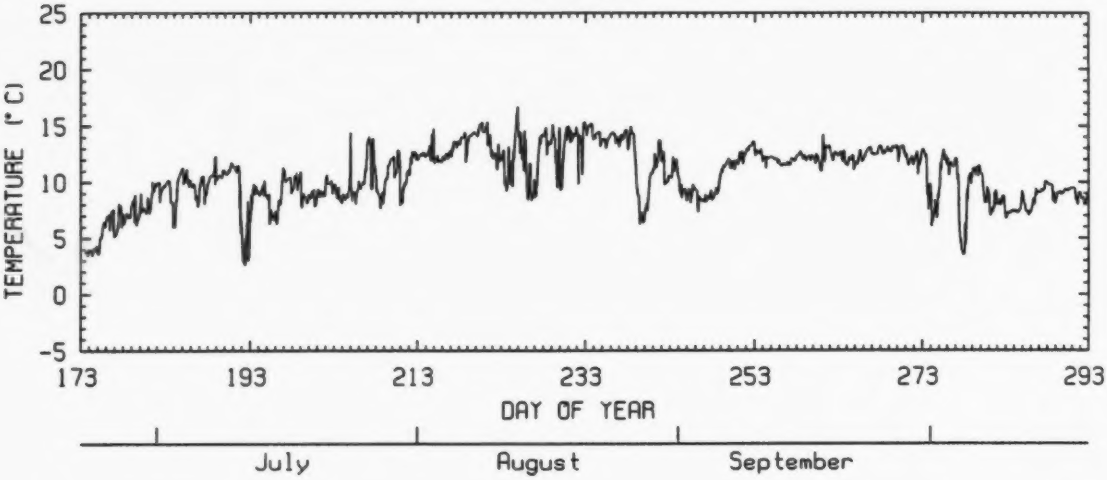
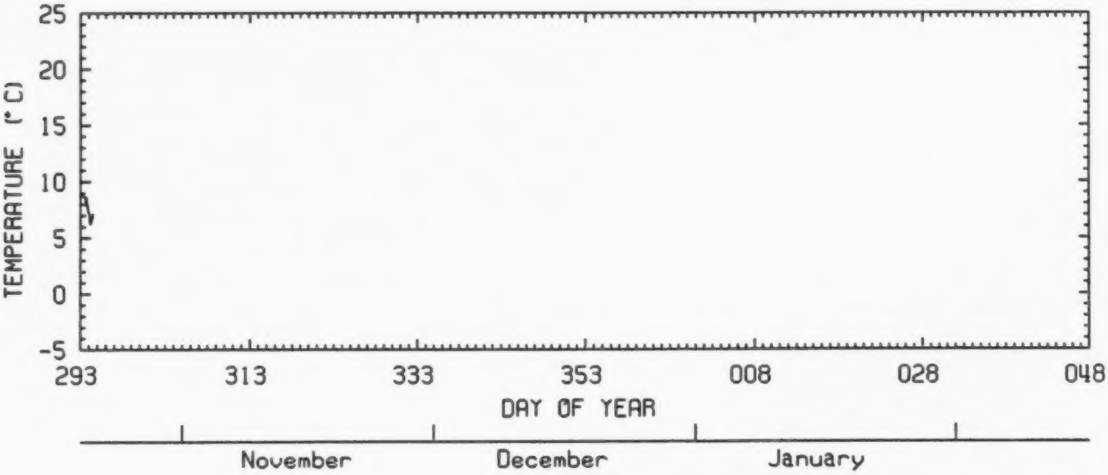
HARRY'S HARBOUR





Start:22-JUN-2003 End:21-OCT-2003 Inst. S/N:7927

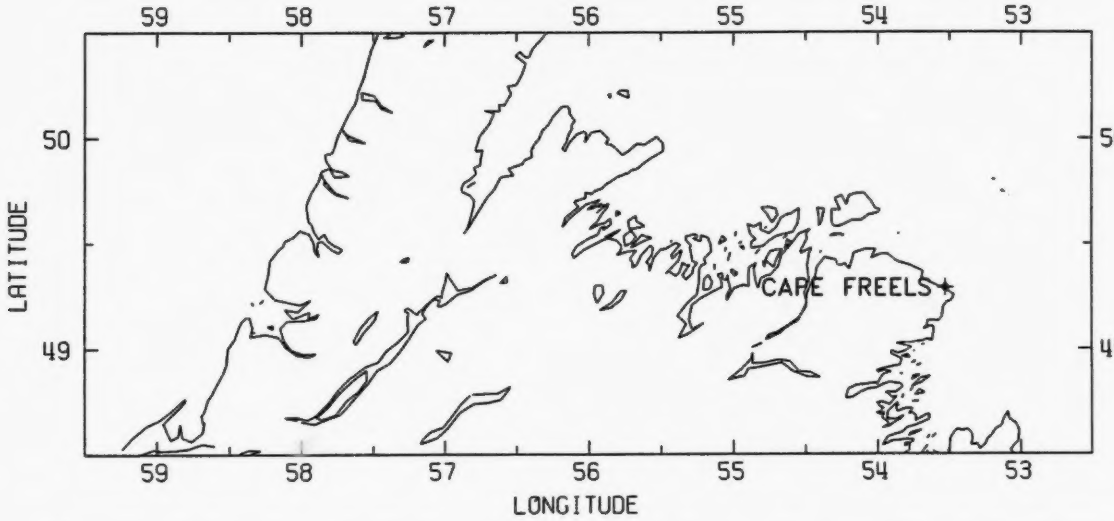
Appendix 6. Time Series Plots and Monthly Statistics from Unit Area 3Ki

THERMOGRAPH DATA SUMMARY: CAPE FREELS (114) 2003

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004346
LATITUDE:	49.29° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2003 00:00 GMT
RECOVERY DATE/TIME:	24-OCT-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	0.90	151	5.20	149	2.54	1.04	15.3	0.0	144
JUN-2003	-0.90	154	10.50	181	4.78	2.82	143.5	46.7	720
JUL-2003	6.50	190	15.90	204	10.86	2.20	336.6	212.6	744
AUG-2003	12.40	221	16.10	231	14.68	0.80	455.1	331.1	744
SEP-2003	9.90	273	14.80	245	13.06	0.86	391.8	271.8	720
OCT-2003	6.70	293	13.30	276	10.59	1.40	253.5	157.5	570
T.PERIOD	-0.90	154	16.10	231	10.50	4.13	1595.8	1019.6	3642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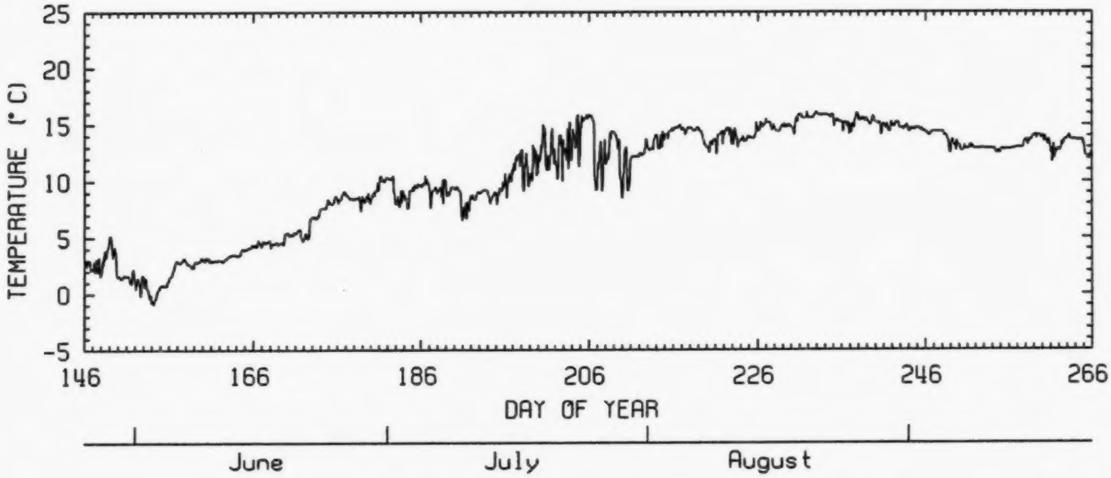
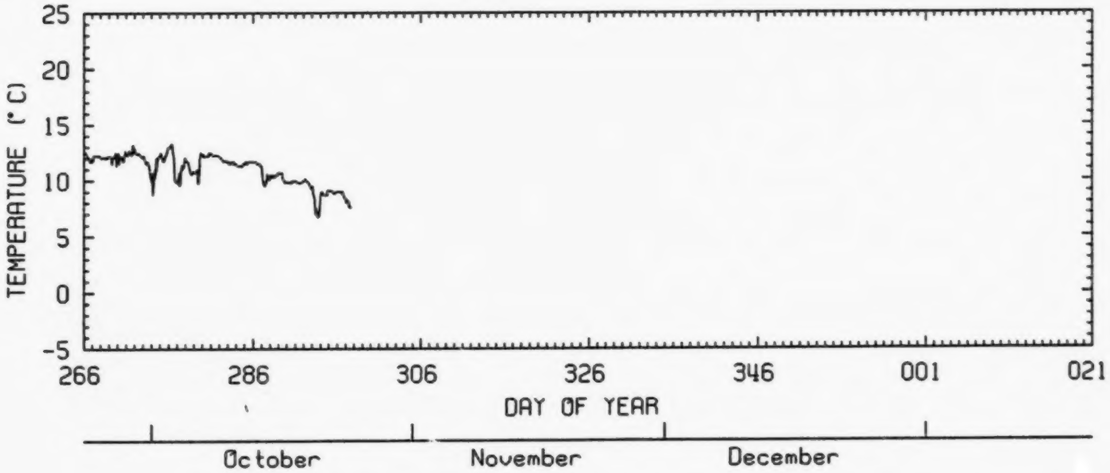
LATITUDE
CAPE FREELS
LONGITUDE





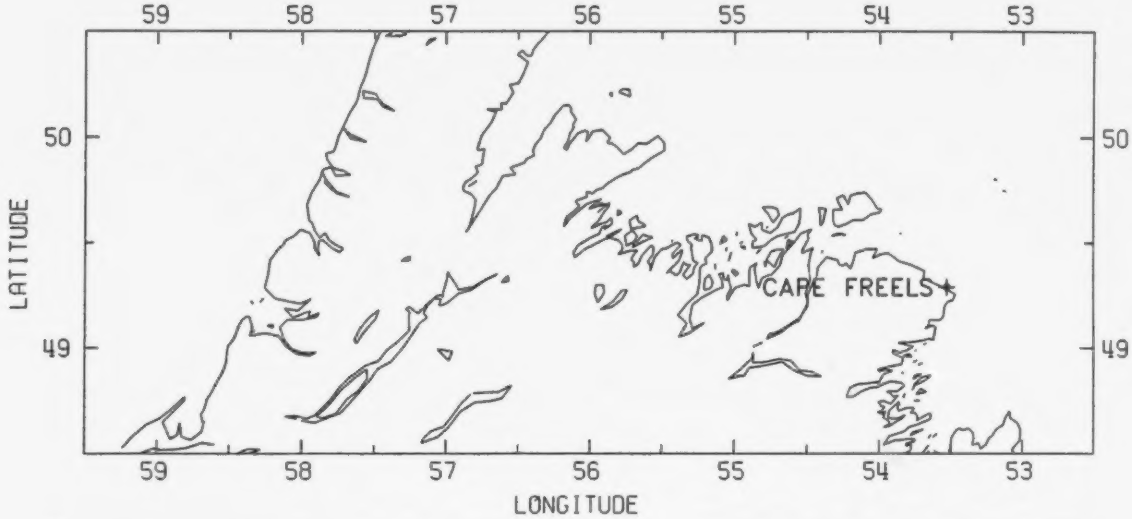
Start:26-MAY-2003 End:24-OCT-2003 Inst. S/N:4346

THERMOGRAPH DATA SUMMARY: CAPE FREELS (114) 2003

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004347
LATITUDE:	49.29° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2003 00:00 GMT
RECOVERY DATE/TIME:	24-OCT-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-0.40	151	3.80	148	1.03	0.89	6.3	0.0	144
JUN-2003	-1.40	154	10.20	181	4.00	2.65	121.7	31.2	720
JUL-2003	0.00	190	12.70	208	8.45	1.82	262.1	138.1	744
AUG-2003	7.60	236	15.80	233	13.03	1.82	403.8	279.8	744
SEP-2003	5.20	273	14.40	244	12.17	1.37	365.0	245.0	720
OCT-2003	1.00	293	12.90	276	9.58	2.05	228.7	132.7	570
T.PERIOD	-1.40	154	15.80	233	9.12	4.08	1387.6	826.8	3642



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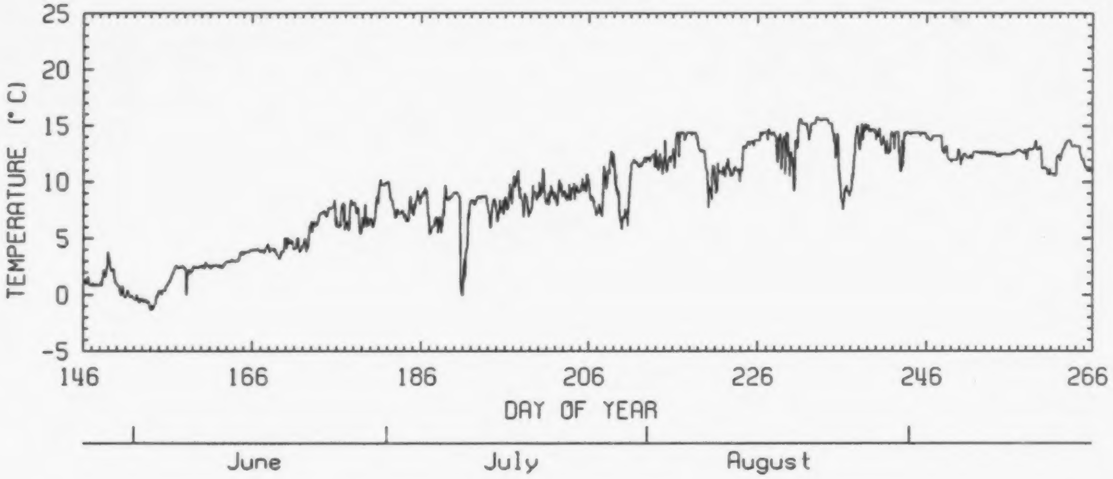
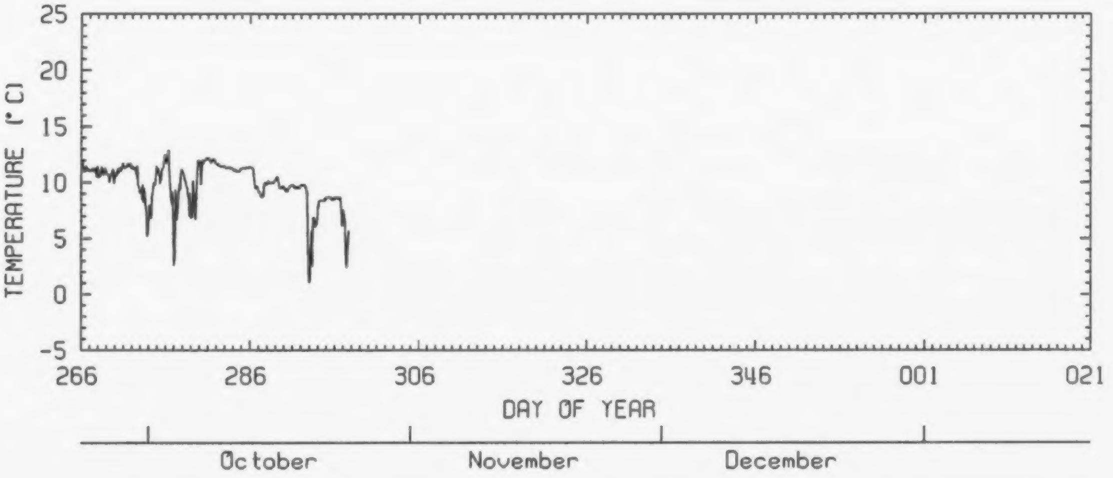
LATITUDE
CAPE FREELS
LONGITUDE





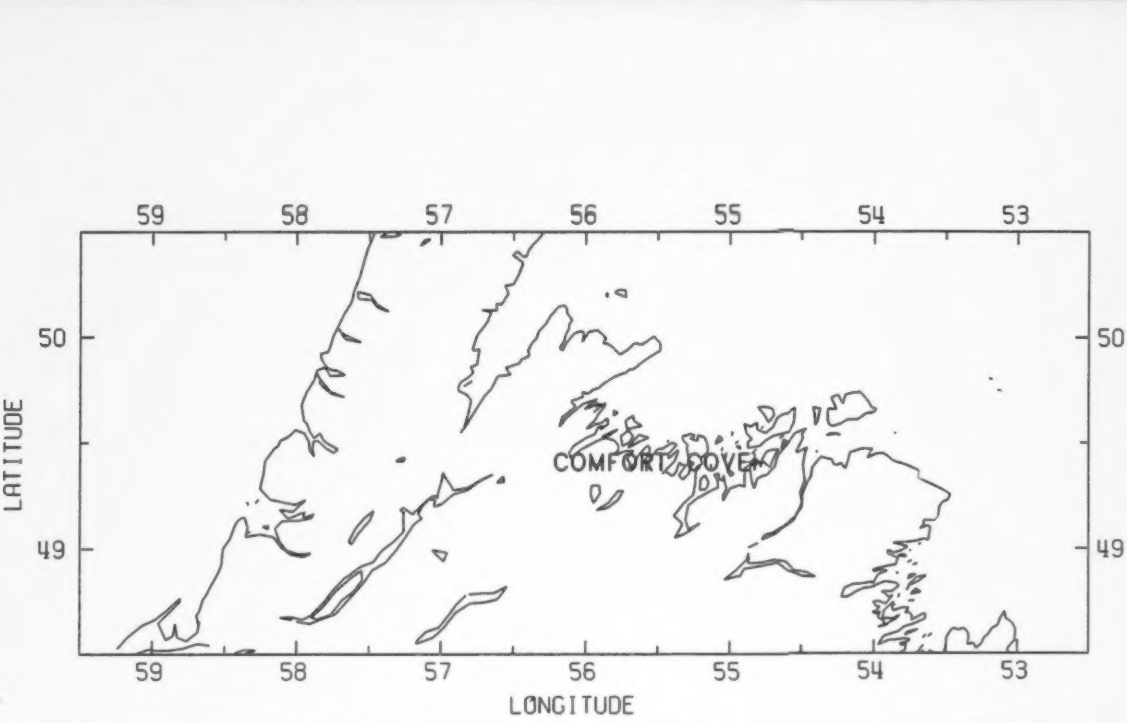
Start:26-MAY-2003 End:24-OCT-2003 Inst. S/N:4347

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2003

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007873
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-NOV-2002 15:00 GMT
RECOVERY DATE/TIME:	30-APR-2003 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2002	2.05	334	3.25	329	2.87	0.35	28.9	0.0	225
DEC-2002	-0.35	346	2.65	335	0.72	0.55	22.3	0.0	744
JAN-2003	-1.85	18	0.40	1	-1.06	0.57	0.6	0.0	744
FEB-2003	-1.90	45	-0.65	34	-1.48	0.35	0.0	0.0	672
MAR-2003	-1.75	61	-1.15	87	-1.37	0.14	0.0	0.0	744
APR-2003	-1.50	103	0.35	119	-1.34	0.14	0.0	0.0	720
T.PERIOD	-1.90	45	3.25	329	-0.67	1.26	51.8	0.0	3849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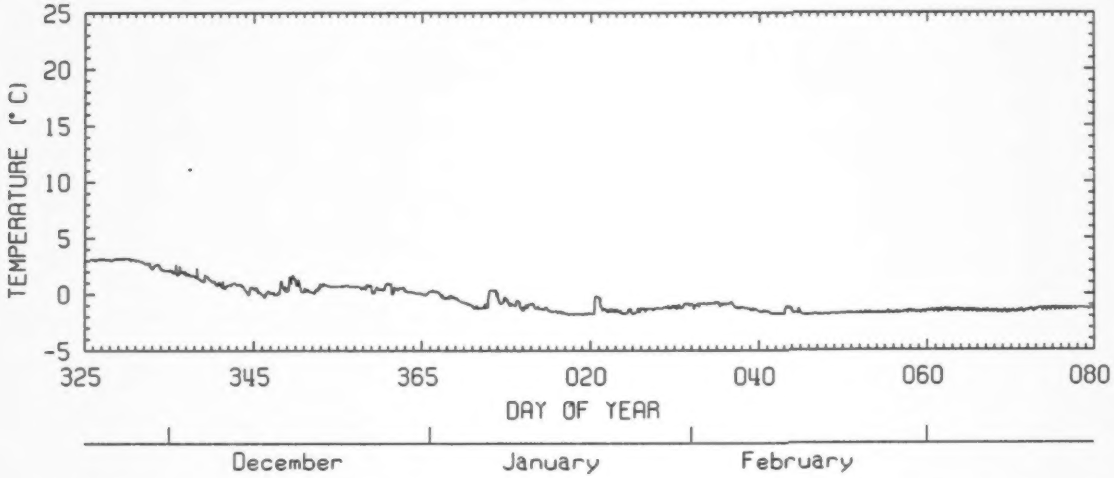
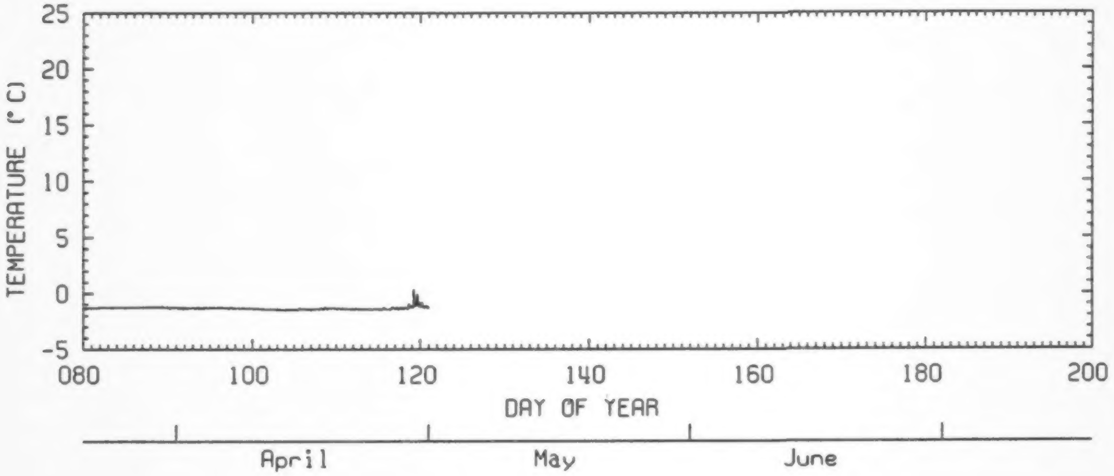
COMFORT COVE





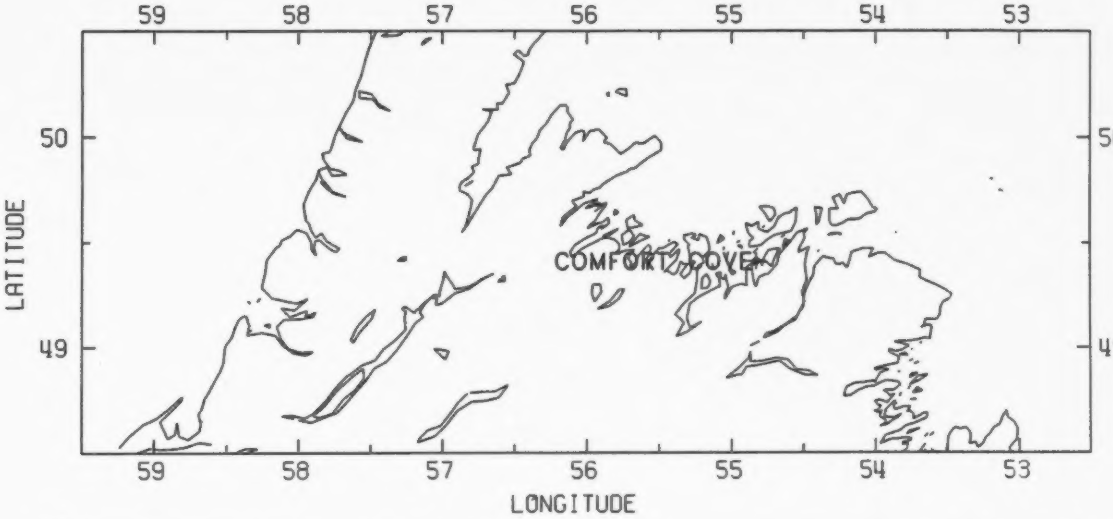
Start:21-NOV-2002 End:30-APR-2003 Inst. S/N:7873

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2003

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007873
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-NOV-2002 15:00 GMT
RECOVERY DATE/TIME:	30-APR-2003 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2002	2.05	334	3.25	329	2.87	0.35	28.9	0.0	225
DEC-2002	-0.35	346	2.65	335	0.72	0.55	22.3	0.0	744
JAN-2003	-1.85	18	0.40	1	-1.06	0.57	0.6	0.0	744
FEB-2003	-1.90	45	-0.65	34	-1.48	0.35	0.0	0.0	672
MAR-2003	-1.75	61	-1.15	87	-1.37	0.14	0.0	0.0	744
APR-2003	-1.50	103	0.35	119	-1.34	0.14	0.0	0.0	720
T.PERIOD	-1.90	45	3.25	329	-0.67	1.26	51.8	0.0	3849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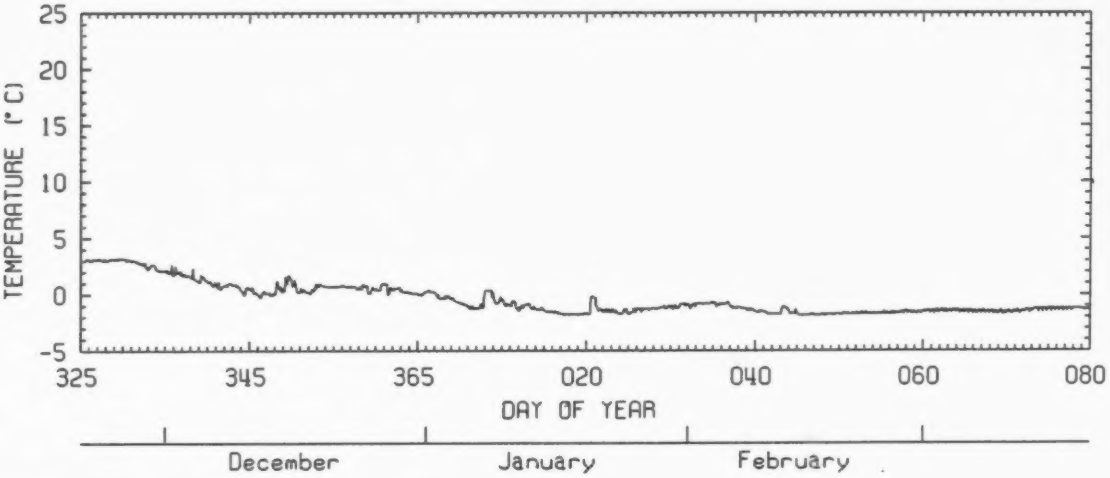
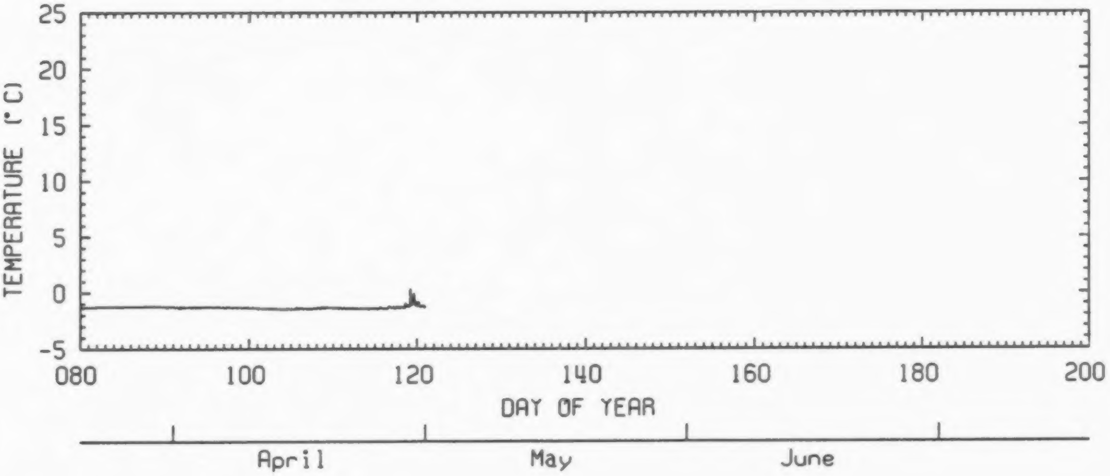
LONGITUDE





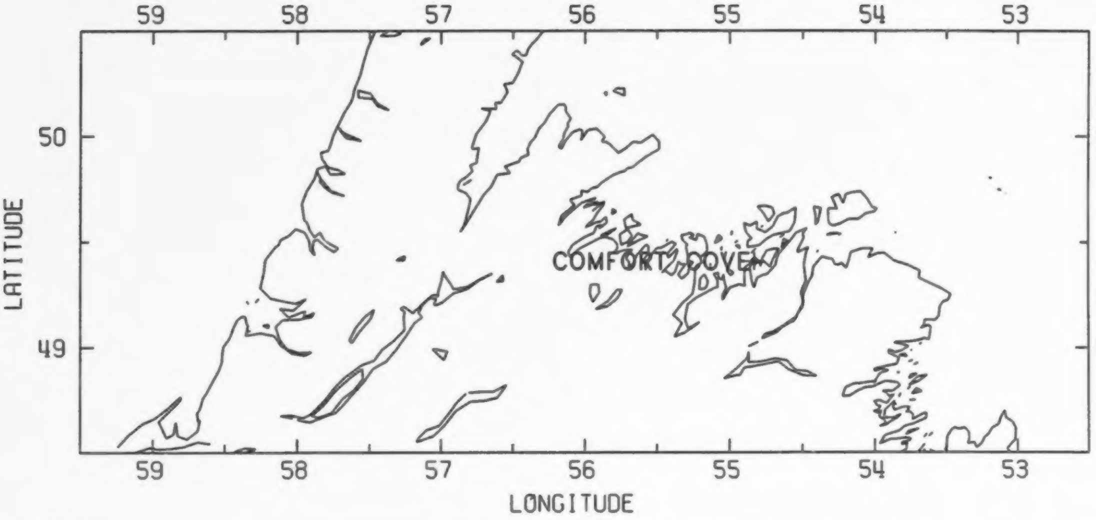
Start:21-NOV-2002 End:30-APR-2003 Inst. S/N:7873

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2003

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007929
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-AUG-2003 15:00 GMT
RECOVERY DATE/TIME:	13-NOV-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2003	11.05	242	17.15	241	16.74	0.84	67.0	51.0	81
SEP-2003	10.50	251	16.90	244	14.11	1.34	423.4	303.4	720
OCT-2003	8.70	303	15.20	274	11.52	1.32	357.1	233.1	744
NOV-2003	6.15	316	9.45	305	7.70	0.97	99.7	47.7	304
T.PERIOD	6.15	316	17.15	241	12.13	2.72	947.2	635.2	1849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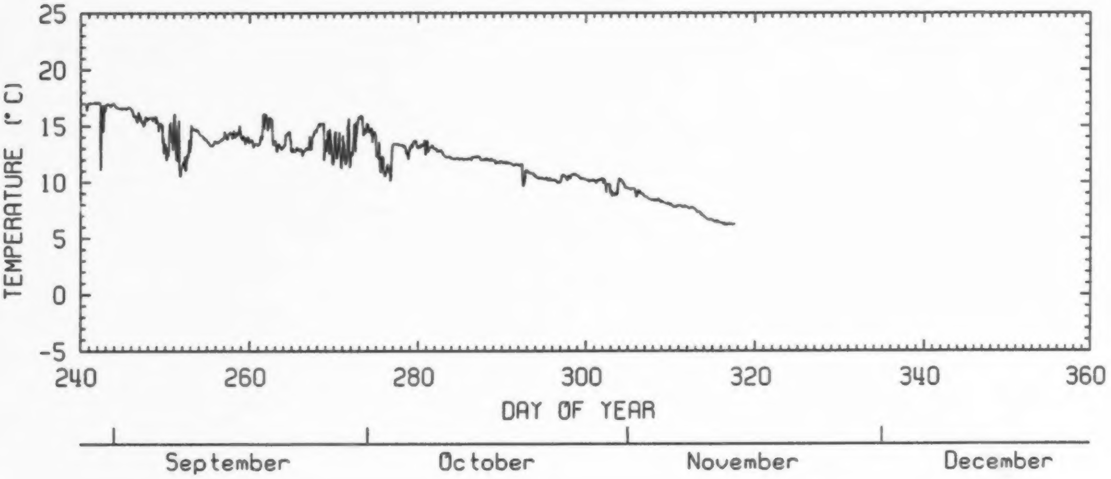


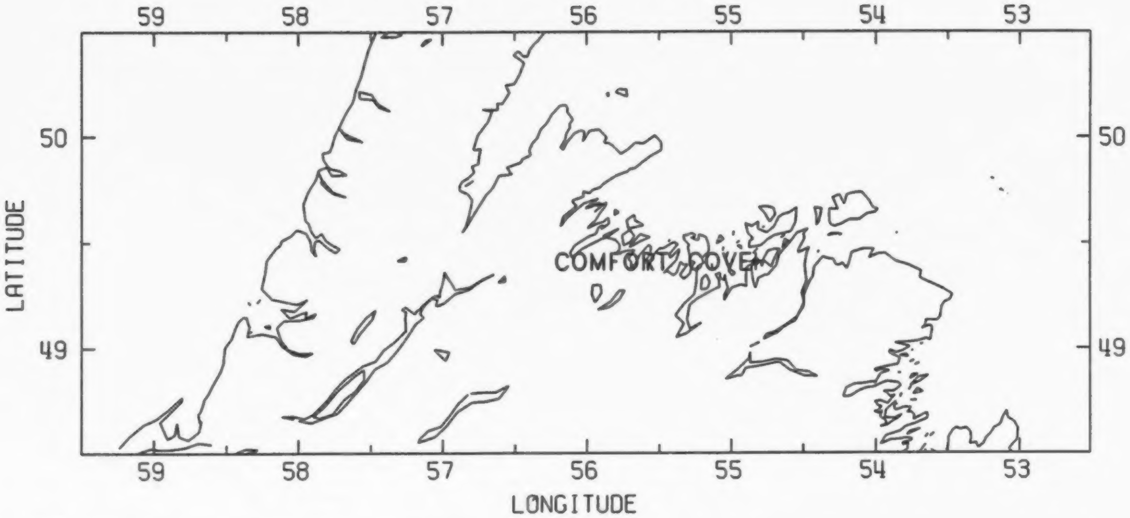
Start: 28-AUG-2003 End: 13-NOV-2003 Inst. S/N:7929

THERMOGRAPH DATA SUMMARY: COMFORT COVE (118) 2003

STATION NAME:	COMFORT COVE
STATION NUMBER:	118
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007929
LATITUDE:	49.41° N
LONGITUDE:	54.83° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-AUG-2003 15:00 GMT
RECOVERY DATE/TIME:	13-NOV-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2003	11.05	242	17.15	241	16.74	0.84	67.0	51.0	81
SEP-2003	10.50	251	16.90	244	14.11	1.34	423.4	303.4	720
OCT-2003	8.70	303	15.20	274	11.52	1.32	357.1	233.1	744
NOV-2003	6.15	316	9.45	305	7.70	0.97	99.7	47.7	304
T.PERIOD	6.15	316	17.15	241	12.13	2.72	947.2	635.2	1849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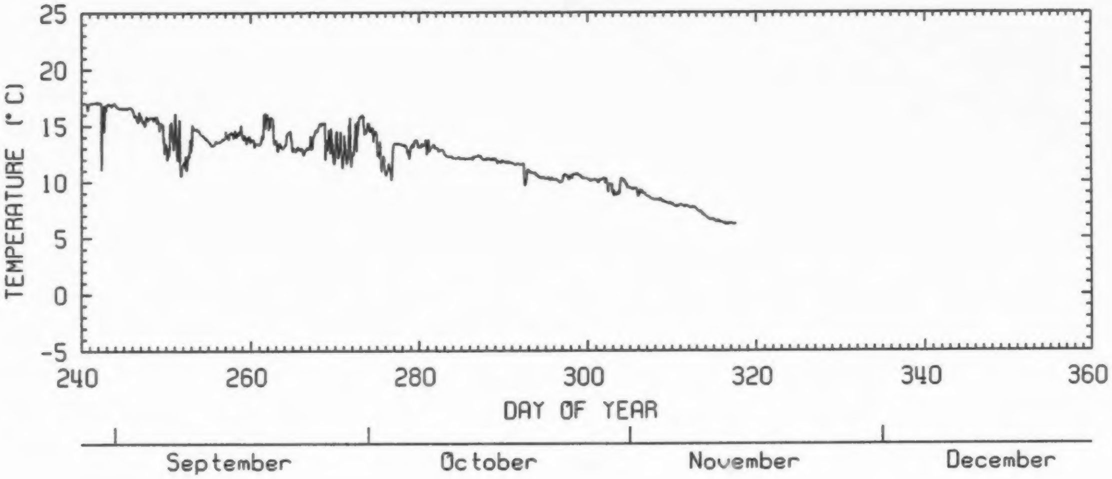
LONGITUDE



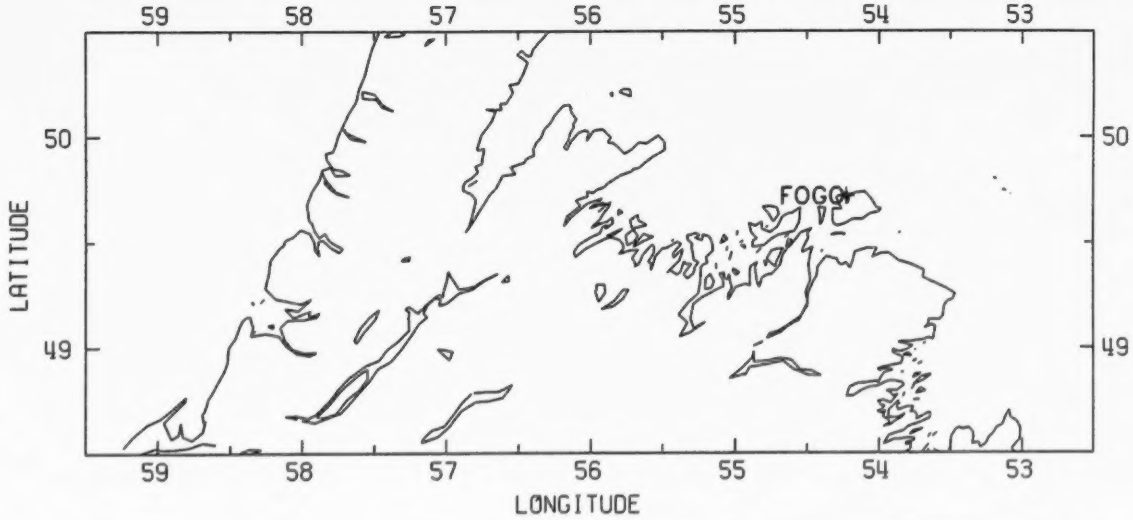
Start: 28-AUG-2003 End: 13-NOV-2003 Inst. S/N:7929

THERMOGRAPH DATA SUMMARY: FOGO (269) 2003

STATION NAME:	FOGO
STATION NUMBER:	269
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006782
LATITUDE:	49.72° N
LONGITUDE:	54.23° W
INSTRUMENT DEPTH:	16 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-JUL-2003 09:00 GMT
RECOVERY DATE/TIME:	26-AUG-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	2.80	190	9.60	189	6.13	1.34	152.3	54.2	591
AUG-2003	4.10	221	9.20	226	6.61	0.86	172.2	68.2	618
T.PERIOD	2.80	190	9.60	189	6.38	1.15	324.5	122.4	1209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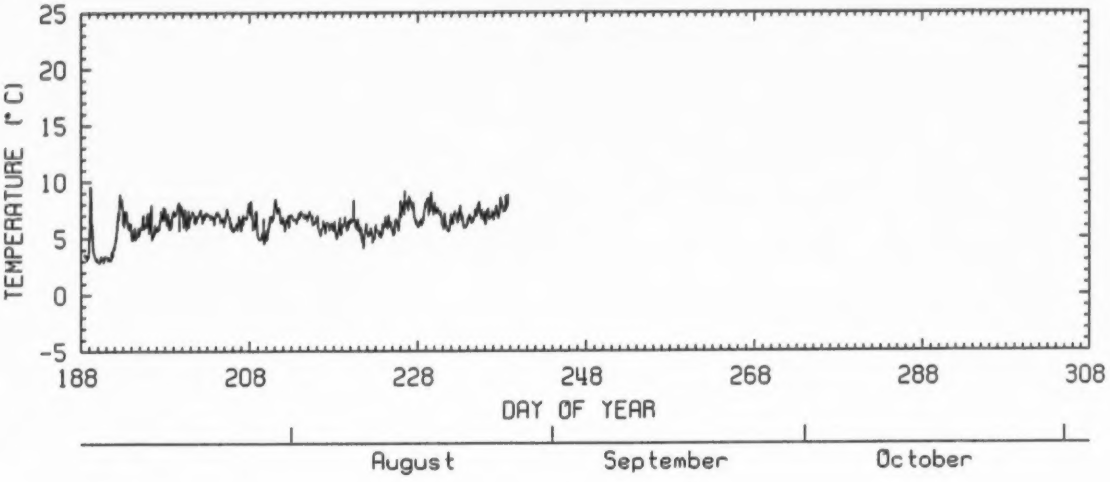
FOGO



Start: 7-JUL-2003 End: 26-AUG-2003 Inst. S/N:6782

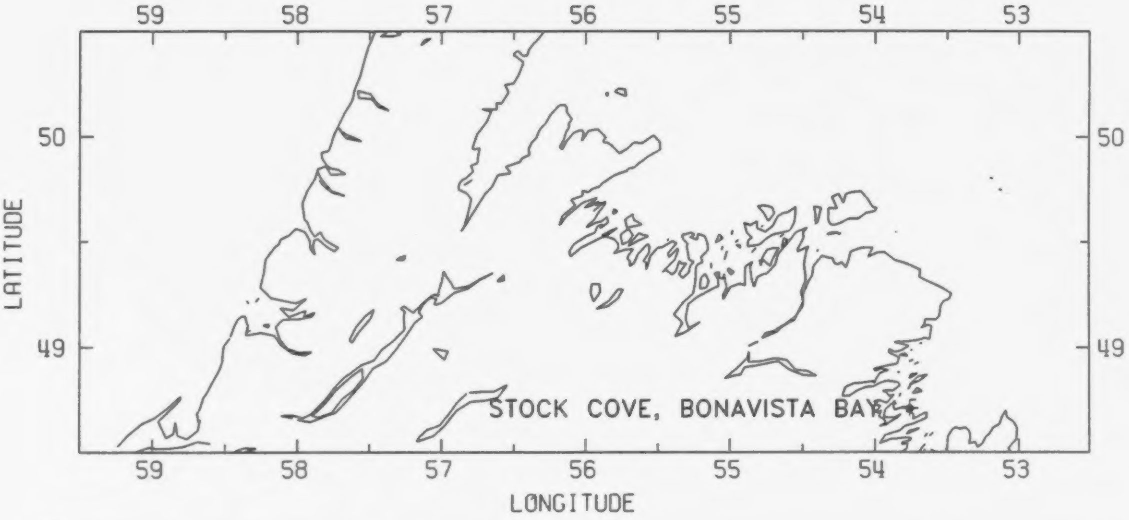
Appendix 7. Time Series Plots and Monthly Statistics from Unit Area 3La

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2003

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003264
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	20-NOV-2002 15:00 GMT
RECOVERY DATE/TIME:	06-MAY-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
NOV-2002	1.90	334	7.60	324	3.35	0.56	37.3	0.1	249
DEC-2002	0.00	365	3.00	335	1.30	0.61	40.3	0.0	744
JAN-2003	-1.20	20	0.80	9	-0.36	0.44	1.5	0.0	744
FEB-2003	-1.90	48	-0.20	38	-1.21	0.45	0.0	0.0	672
MAR-2003	-1.90	66	-1.20	62	-1.70	0.14	0.0	0.0	744
APR-2003	-1.80	91	0.20	120	-1.09	0.40	0.0	0.0	720
MAY-2003	-0.90	121	2.60	126	1.26	0.70	7.6	0.0	138
T.PERIOD	-1.90	48	7.60	324	-0.29	1.48	86.8	0.1	4011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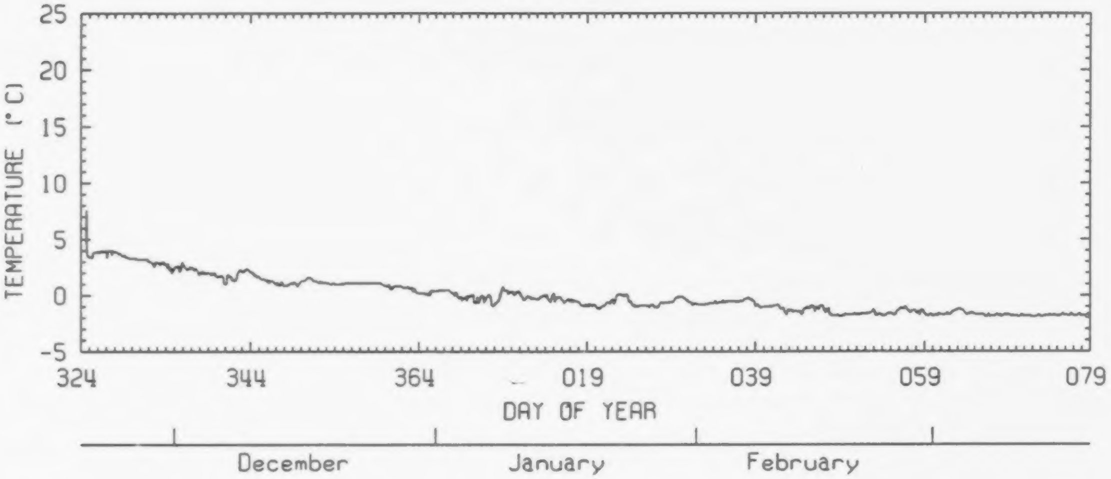
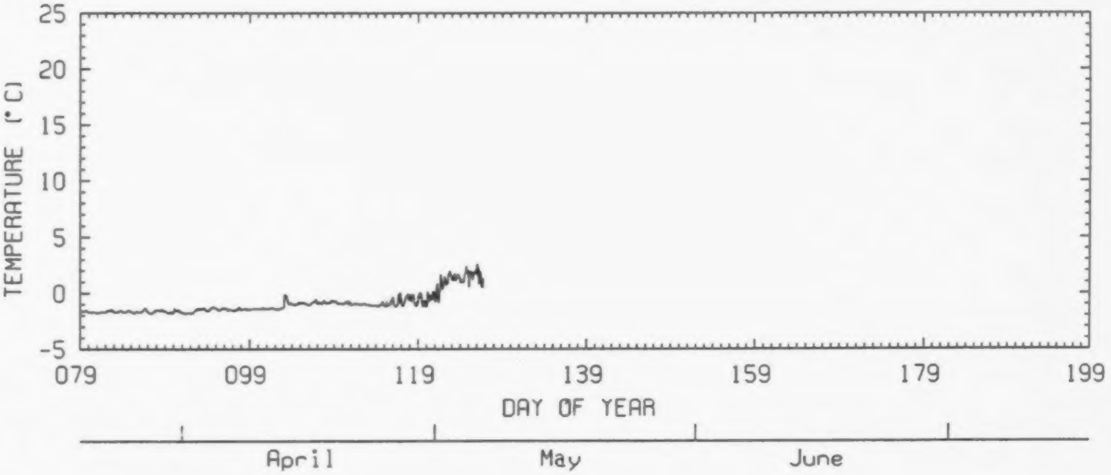
LATITUDE
STOCK COVE, BONAVISTA BAY
LONGITUDE





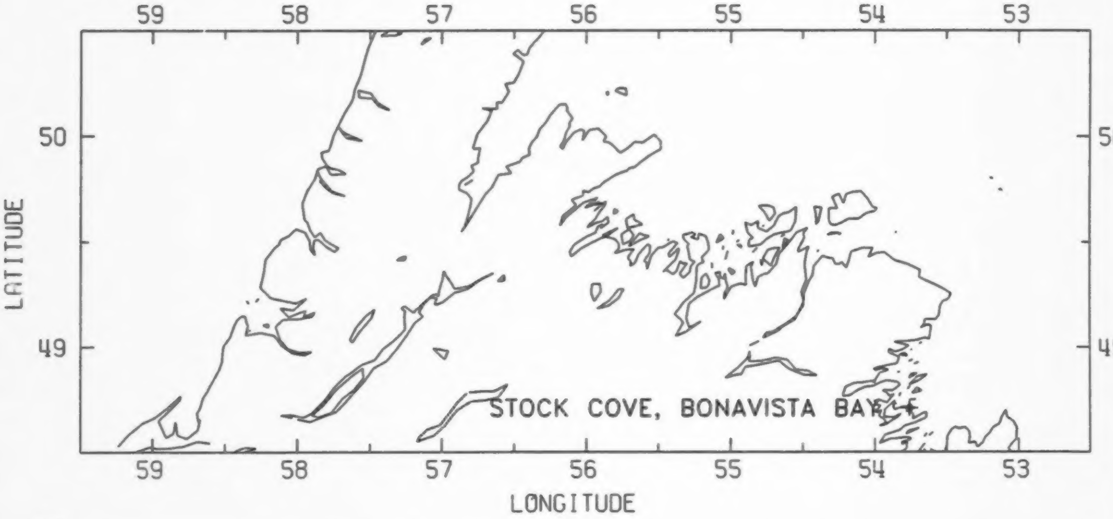
Start:20-NOV-2002 End: 6-MAY-2003 Inst. S/N:3264

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2003

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008972
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-MAY-2003 18:00 GMT
RECOVERY DATE/TIME:	26-AUG-2003 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	0.15	128	4.70	140	1.95	0.74	50.5	0.0	606
JUN-2003	-0.30	154	10.95	181	3.62	1.80	108.7	12.7	720
JUL-2003	8.10	185	12.35	209	9.87	0.89	306.1	182.1	744
AUG-2003	10.55	238	16.45	233	13.70	1.32	355.6	251.6	619
T.PERIOD	-0.30	154	16.45	233	7.29	4.79	820.8	446.3	2689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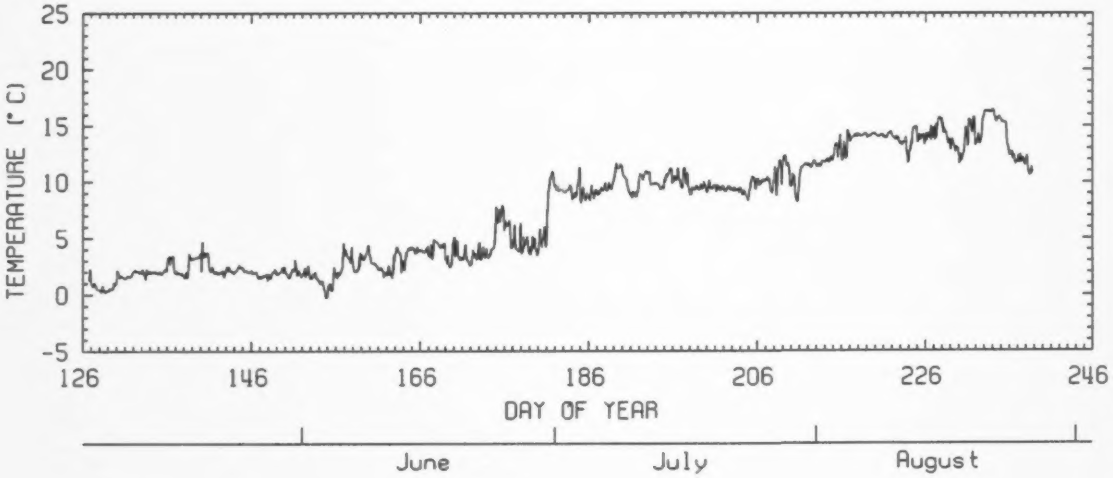
LATITUDE
STOCK COVE, BONAVISTA BAY
LONGITUDE



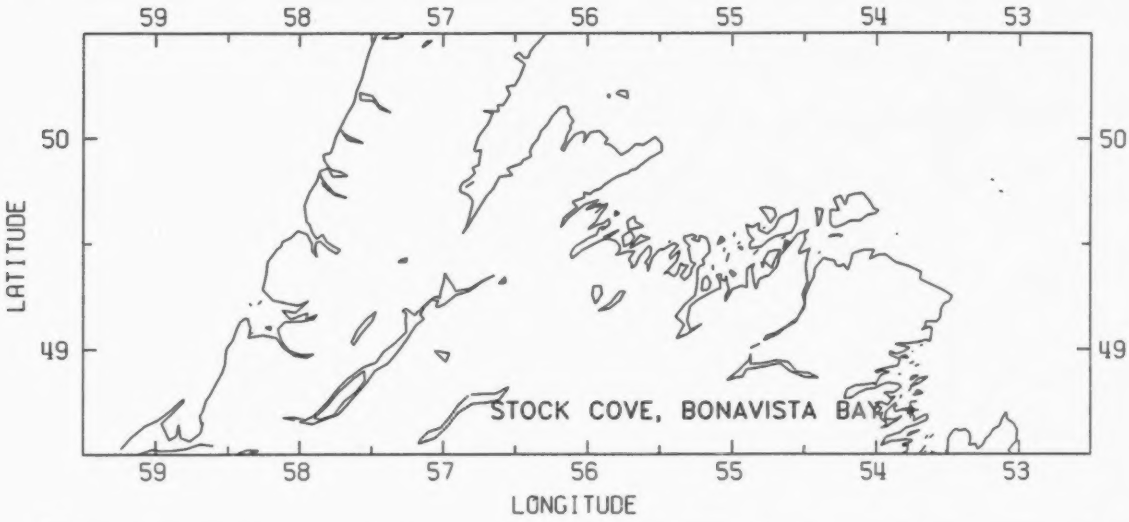
Start: 6-MAY-2003 End: 26-AUG-2003 Inst. S/N:8972

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2003

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007943
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-AUG-2003 19:00 GMT
RECOVERY DATE/TIME:	12-NOV-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
AUG-2003	10.40	238	13.35	243	12.04	0.68	71.3	47.3	125
SEP-2003	10.30	273	15.10	261	13.62	0.69	408.6	288.6	720
OCT-2003	3.45	304	13.30	277	9.62	1.67	298.2	174.2	744
NOV-2003	4.10	316	6.60	306	5.65	0.64	67.4	19.4	282
T.PERIOD	3.45	304	15.10	261	10.72	3.02	845.6	529.6	1871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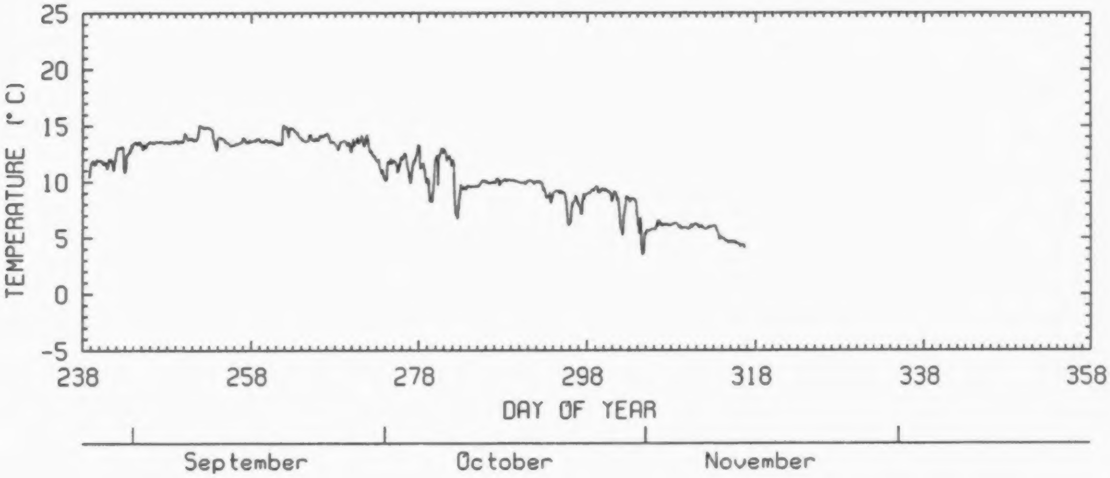
LATITUDE
STOCK COVE, BONAVISTA BAY
LONGITUDE



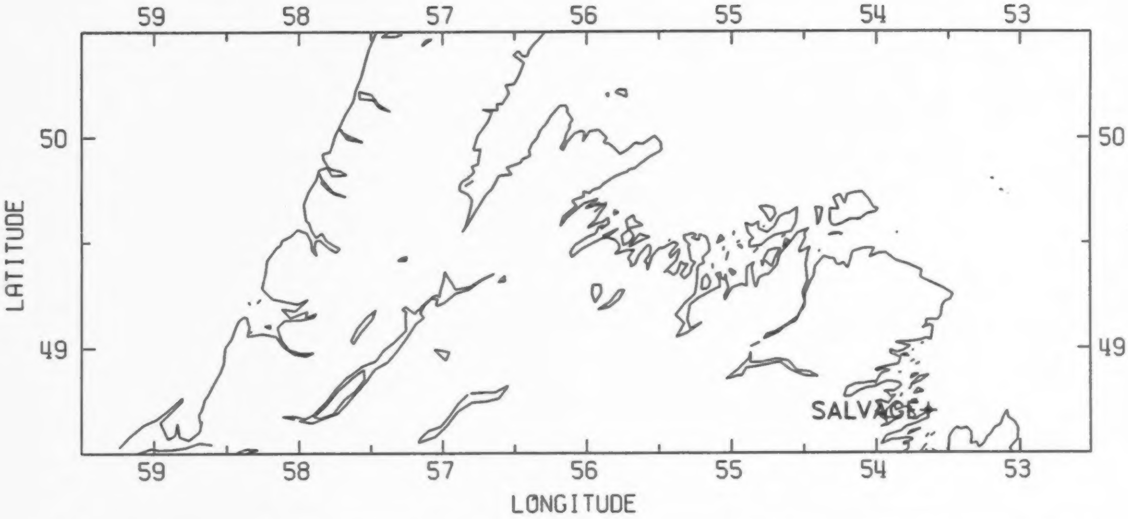
Start: 26-AUG-2003 End: 12-NOV-2003 Inst. S/N:7943

THERMOGRAPH DATA SUMMARY: SALVAGE (129) 2003

STATION NAME:	SALVAGE
STATION NUMBER:	129
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	008956
LATITUDE:	48.70° N
LONGITUDE:	53.64° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-MAY-2003 09:00 GMT
RECOVERY DATE/TIME:	17-AUG-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	0.80	150	6.60	148	2.32	0.91	43.9	0.0	447
JUN-2003	0.00	154	10.70	181	3.99	1.86	119.8	17.7	720
JUL-2003	6.90	184	13.20	205	9.69	1.17	300.4	176.4	744
AUG-2003	10.80	215	15.40	228	13.10	1.06	222.5	154.5	402
T.PERIOD	0.00	154	15.40	228	7.09	4.21	686.6	348.6	2313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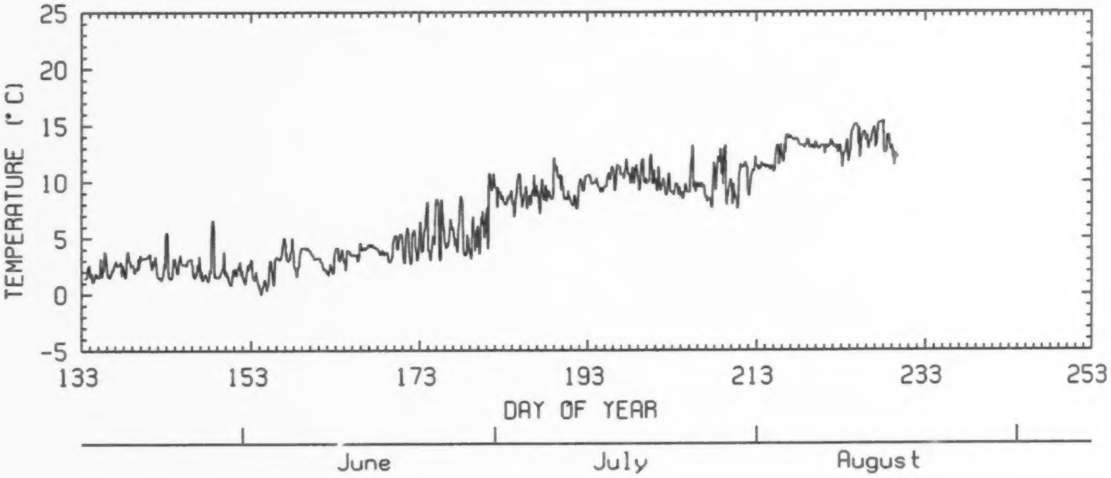
LATITUDE
SALVAGE
LONGITUDE



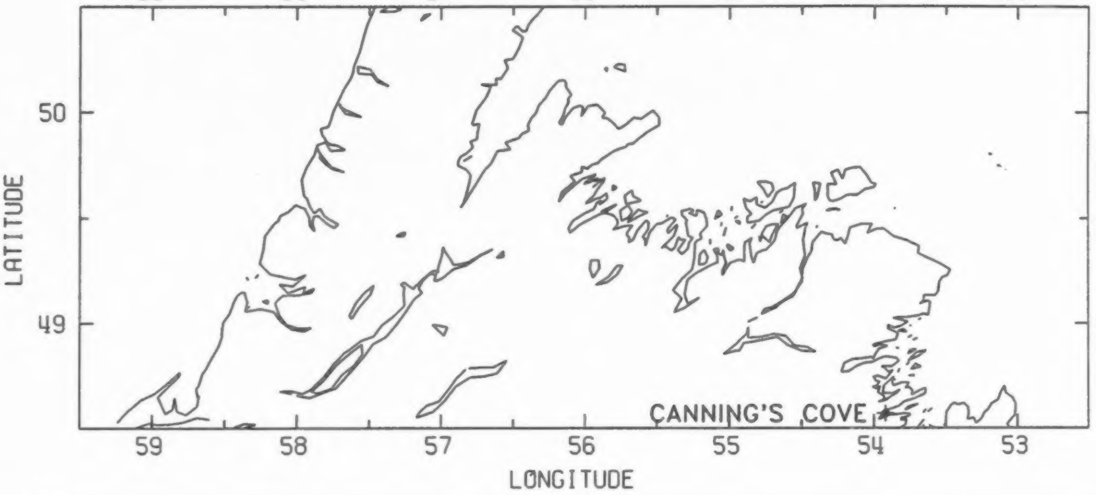
Start: 13-MAY-2003 End: 17-AUG-2003 Inst. S/N:8956

THERMOGRAPH DATA SUMMARY: CANNING'S COVE (138) 2003

STATION NAME:	CANNING'S COVE
STATION NUMBER:	138
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007411
LATITUDE:	48.57° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-MAY-2003 17:00 GMT
RECOVERY DATE/TIME:	31-DEC-2003 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	4.70	148	9.60	147	7.40	1.04	38.4	18.4	103
JUN-2003	1.10	157	10.60	178	6.89	1.65	206.8	87.3	720
JUL-2003	8.70	182	15.20	202	12.25	1.29	379.7	255.7	744
AUG-2003	11.50	239	17.80	222	15.28	1.32	473.7	349.7	744
SEP-2003	12.30	246	17.70	260	14.48	1.04	434.3	314.3	720
OCT-2003	8.00	302	15.40	276	11.02	2.06	341.7	217.7	744
NOV-2003	2.90	315	8.10	305	4.89	0.97	146.7	27.7	720
DEC-2003	0.70	356	4.90	335	2.58	0.75	79.9	1.2	744
T.PERIOD	0.70	356	17.80	222	9.59	4.70	2101.1	1272.0	5239



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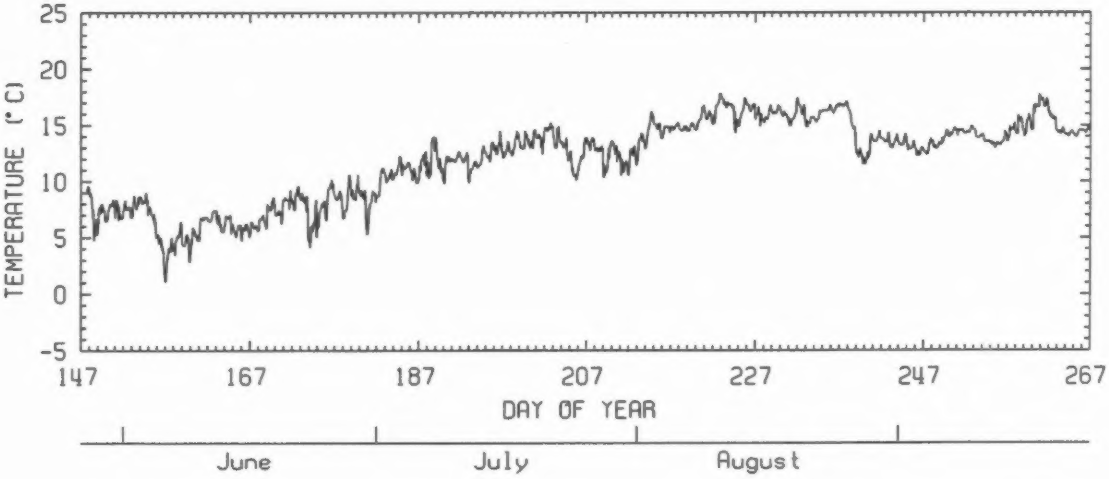
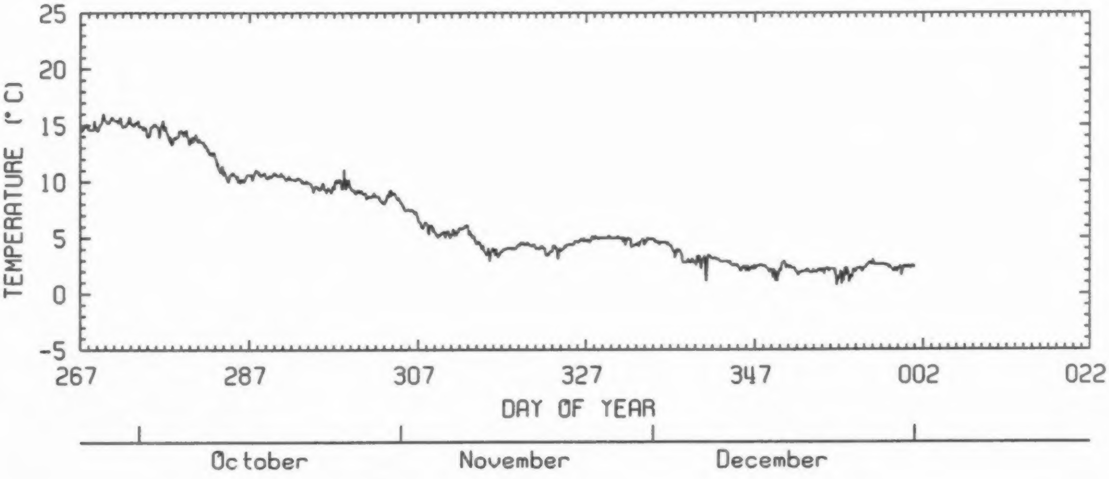
LATITUDE
CANNING'S COVE
LONGITUDE





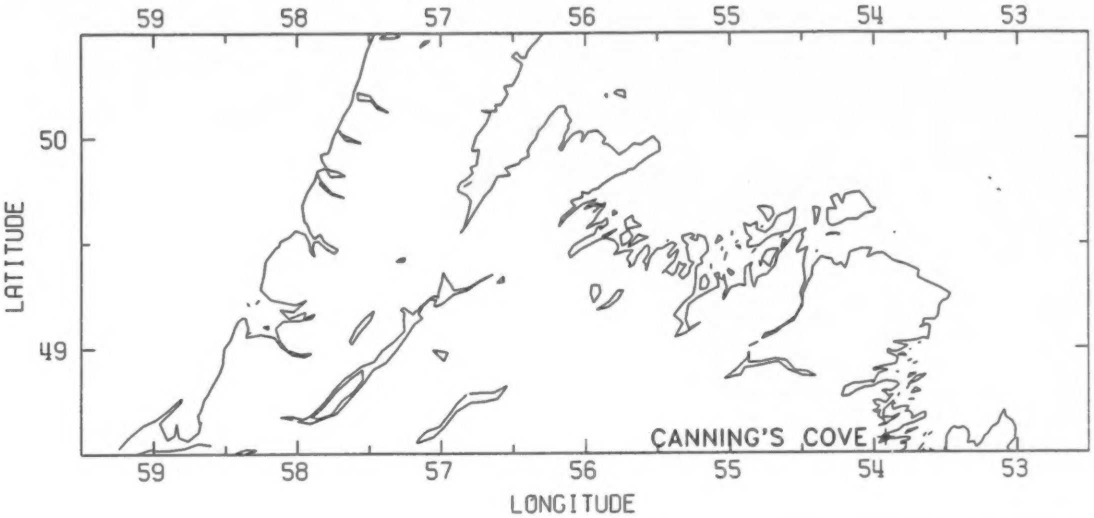
Start:27-MAY-2003 End:31-DEC-2003 Inst. S/N:7411

THERMOGRAPH DATA SUMMARY: CANNING'S COVE (138) 2004

STATION NAME:	CANNING'S COVE
STATION NUMBER:	138
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007411
LATITUDE:	48.57° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2004 00:00 GMT
RECOVERY DATE/TIME:	26-APR-2004 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2004	-1.20	25	2.50	1	0.32	0.81	14.3	0.0	744
FEB-2004	-1.00	48	0.40	46	-0.21	0.26	0.4	0.0	696
MAR-2004	-1.20	70	1.90	91	0.05	0.41	4.9	0.0	744
APR-2004	0.50	92	4.90	101	1.74	0.68	45.0	0.0	612
T.PERIOD	-1.20	25	4.90	101	0.43	0.93	64.6	0.0	2796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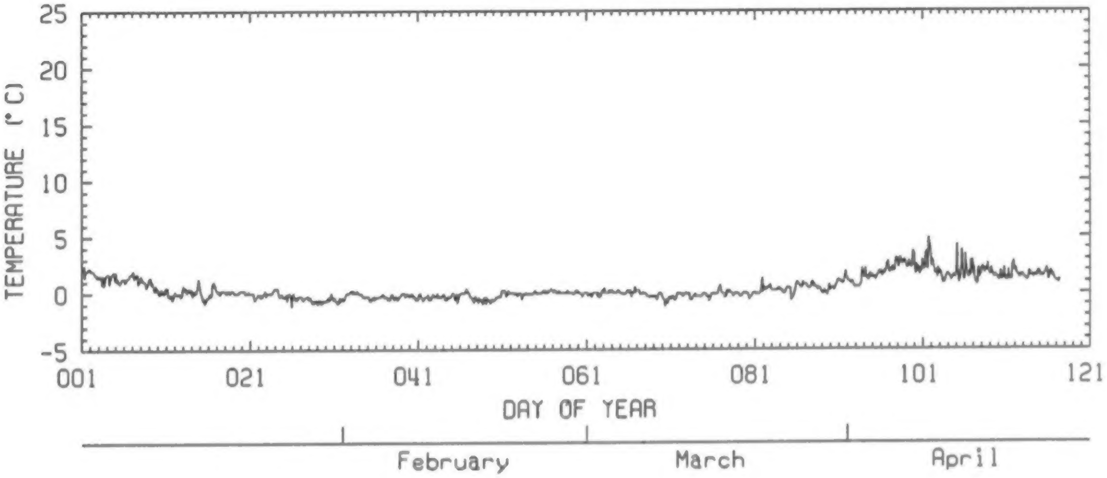
LATITUDE
CANNING'S COVE
LONGITUDE



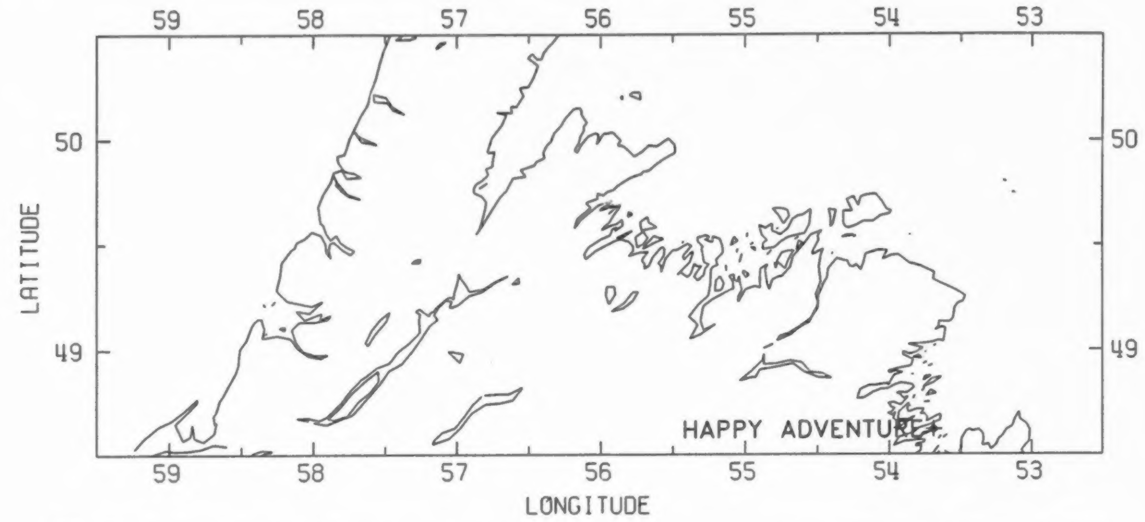
Start: 1-JAN-2004 End: 26-APR-2004 Inst. S/N:7411

THERMOGRAPH DATA SUMMARY: HAPPY ADVENTURE (244) 2003

STATION NAME:	HAPPY ADVENTURE
STATION NUMBER:	244
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007933
LATITUDE:	48.62° N
LONGITUDE:	53.69° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	28-JUN-2003 09:00 GMT
RECOVERY DATE/TIME:	25-NOV-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.85	179	4.75	181	3.28	0.36	9.8	0.0	63
JUL-2003	3.40	182	10.60	189	7.11	1.62	220.5	96.7	744
AUG-2003	5.45	238	13.35	219	9.68	1.59	300.1	176.1	744
SEP-2003	7.10	244	14.50	262	12.63	1.44	379.0	259.0	720
OCT-2003	2.70	282	10.75	288	7.13	2.32	221.0	97.0	744
NOV-2003	1.75	328	7.55	306	5.62	1.13	139.7	41.4	591
T.PERIOD	1.75	328	14.50	262	8.44	3.02	1270.1	670.2	3606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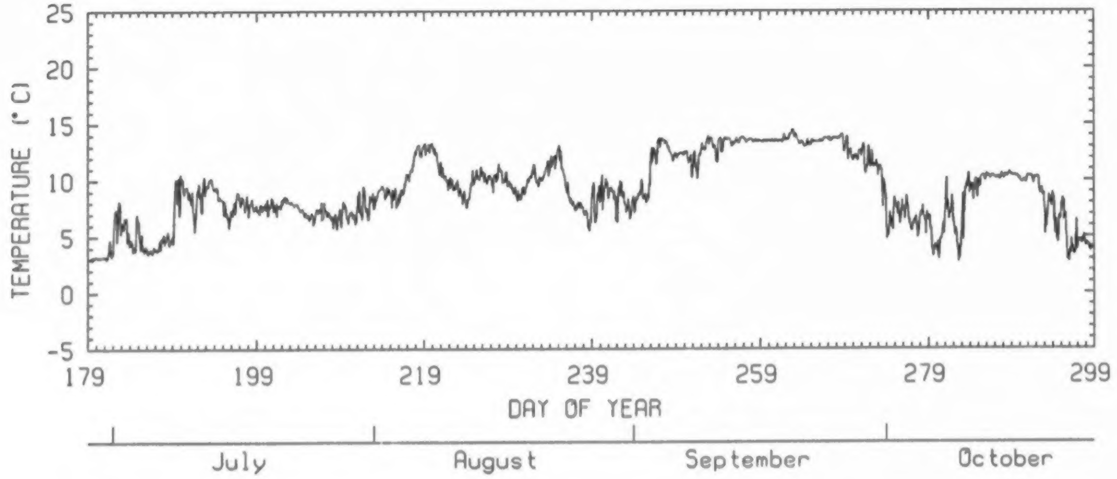
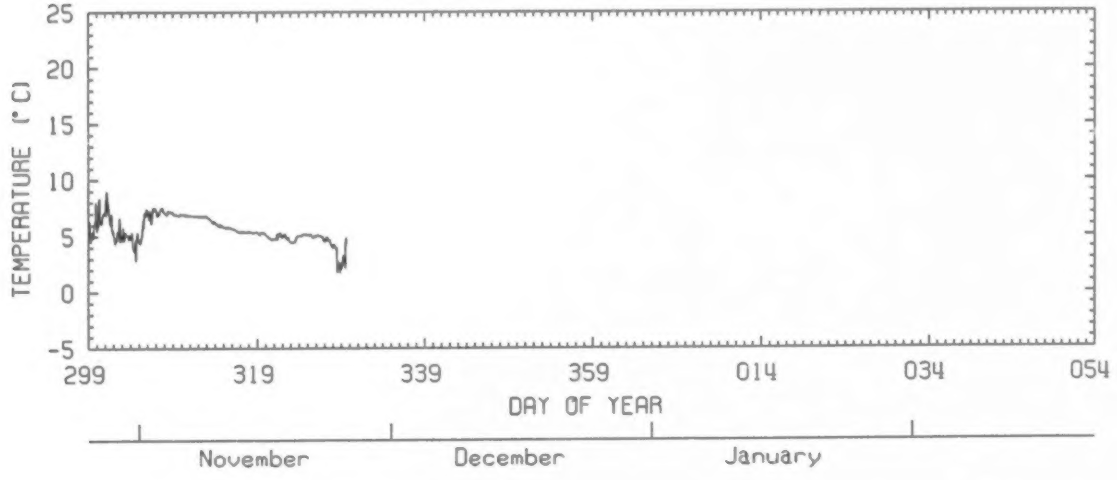
LATITUDE
HAPPY ADVENTURE
LONGITUDE





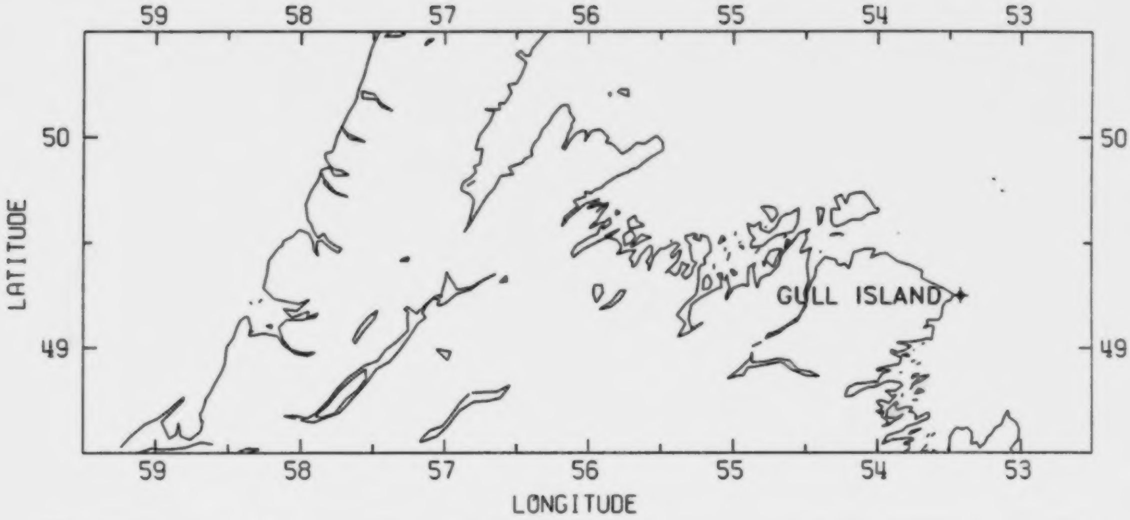
Start:28-JUN-2003 End:25-NOV-2003 Inst. S/N:7933

THERMOGRAPH DATA SUMMARY: GULL ISLAND (279) 2003

STATION NAME:	GULL ISLAND
STATION NUMBER:	279
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006598
LATITUDE:	49.25° N
LONGITUDE:	53.42° W
INSTRUMENT DEPTH:	25 m
WATER DEPTH:	25 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUL-2003 13:00 GMT
RECOVERY DATE/TIME:	12-AUG-2003 23:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	3.75	210	12.05	212	7.82	1.58	147.7	71.7	443
AUG-2003	6.35	220	14.50	218	10.54	2.05	126.4	78.4	288
T.PERIOD	3.75	210	14.50	218	8.89	2.22	274.1	150.1	731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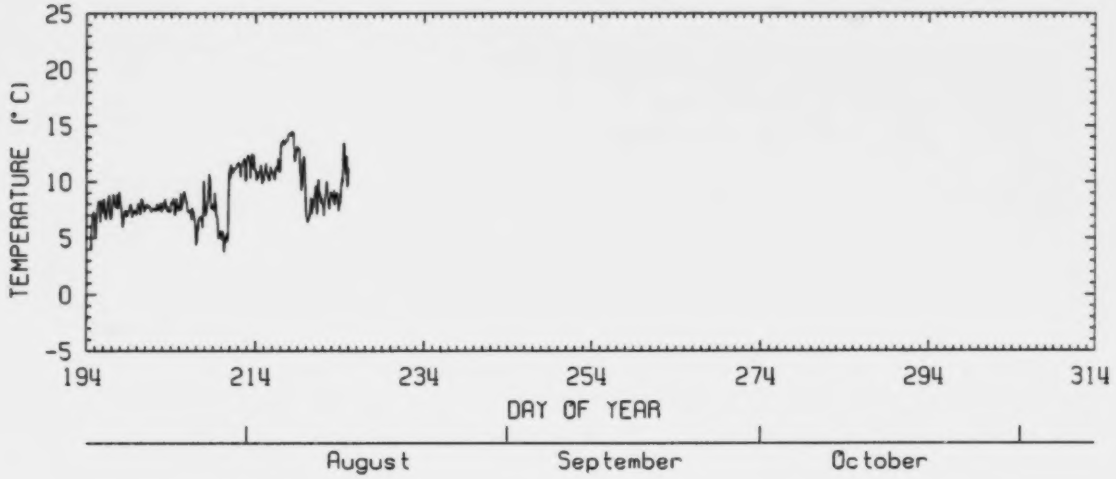
LATITUDE
GULL ISLAND
LONGITUDE



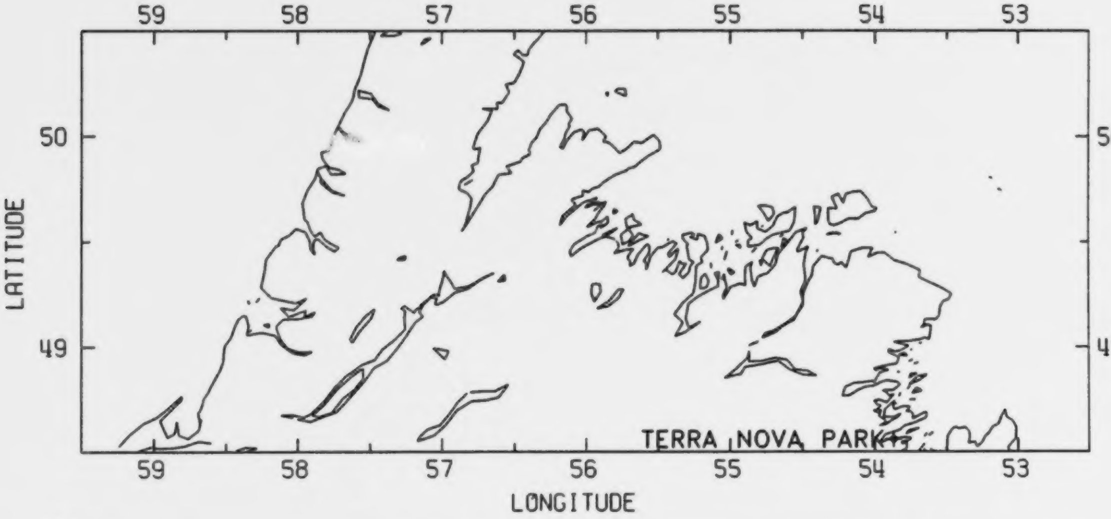
Start: 13-JUL-2003 End: 12-AUG-2003 Inst. S/N:6598

THERMOGRAPH DATA SUMMARY: Terra Nova (Minchins Cove) (280) 2003

STATION NAME:	Terra Nova (Minchins Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009364
LATITUDE:	48.56° N
LONGITUDE:	53.87° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2003 15:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.60	177	9.80	181	6.46	1.36	129.2	49.2	465
JUL-2003	8.10	193	15.40	202	11.35	1.22	351.8	227.8	744
AUG-2003	8.90	239	16.80	222	14.71	1.33	456.2	332.2	744
SEP-2003	12.10	246	17.40	261	14.30	0.92	429.0	309.0	720
OCT-2003	8.70	284	14.50	275	11.63	1.64	231.9	151.9	471
T.PERIOD	2.60	177	17.40	261	12.14	3.04	1597.9	1069.9	3144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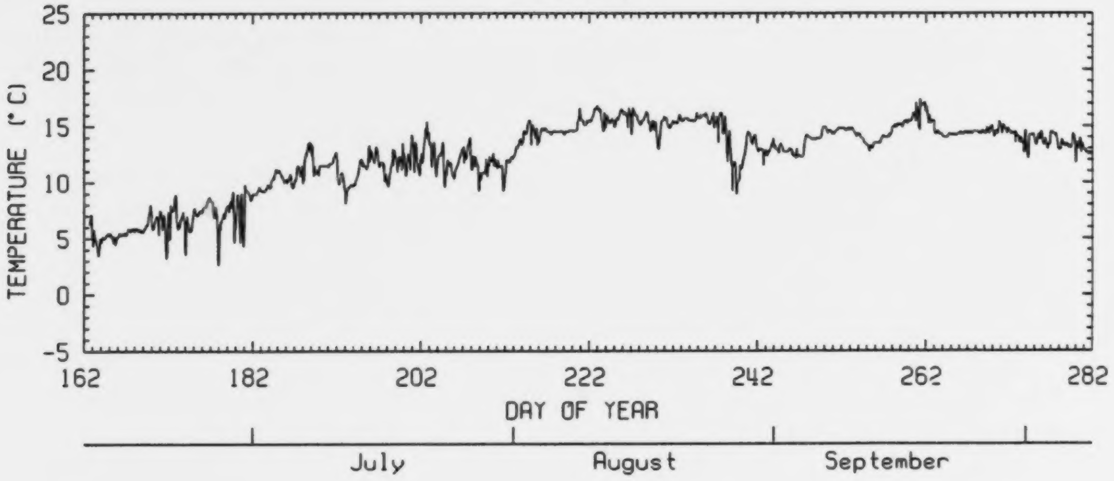
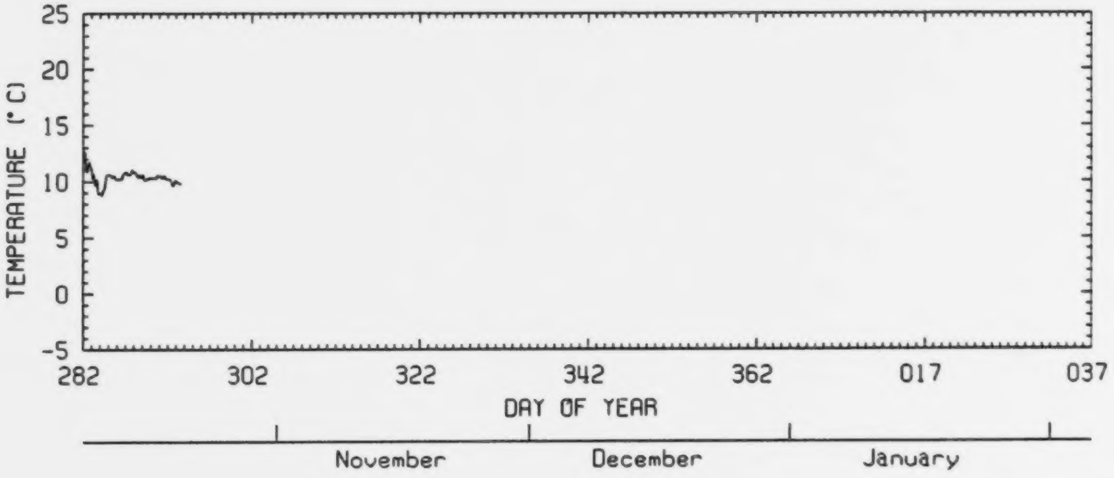
LATITUDE
TERRA NOVA PARK
LONGITUDE





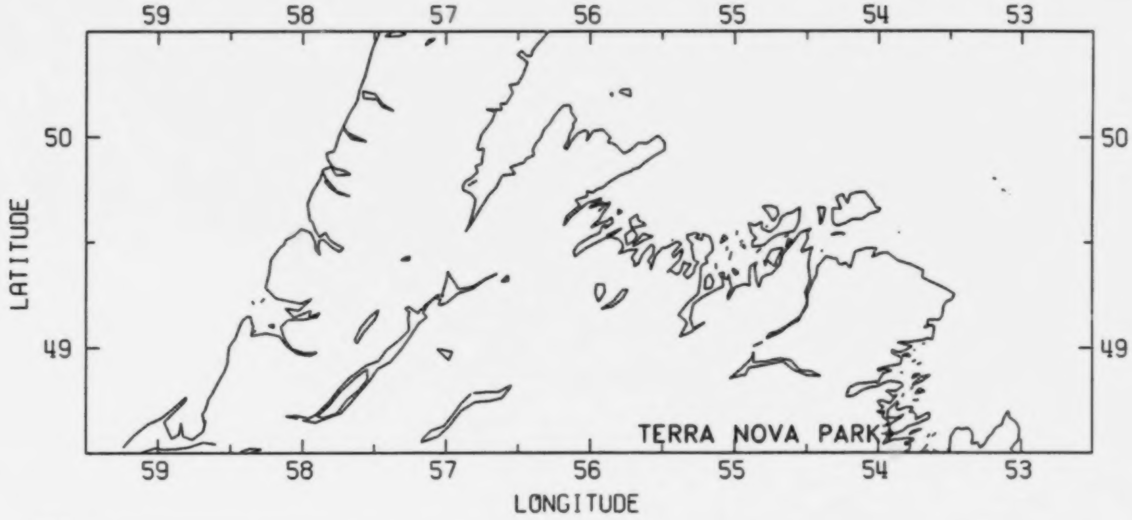
Start:11-JUN-2003 End:20-OCT-2003 Inst. S/N:9364

THERMOGRAPH DATA SUMMARY: Terra Nova (Mistaken Cove) (280) 2003

STATION NAME:	Terra Nova (Mistaken Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007408
LATITUDE:	48.59° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	4 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2003 14:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.50	174	10.30	178	6.49	1.83	115.1	43.8	418
JUL-2003	7.00	192	16.20	202	11.48	1.64	356.0	232.0	744
AUG-2003	10.50	239	17.80	223	14.98	1.41	464.3	340.3	744
SEP-2003	11.50	246	17.40	260	14.18	1.00	425.3	305.3	720
OCT-2003	9.20	283	15.50	276	11.84	1.88	236.0	156.0	469
T.PERIOD	2.50	174	17.80	223	12.33	3.10	1596.7	1077.4	3095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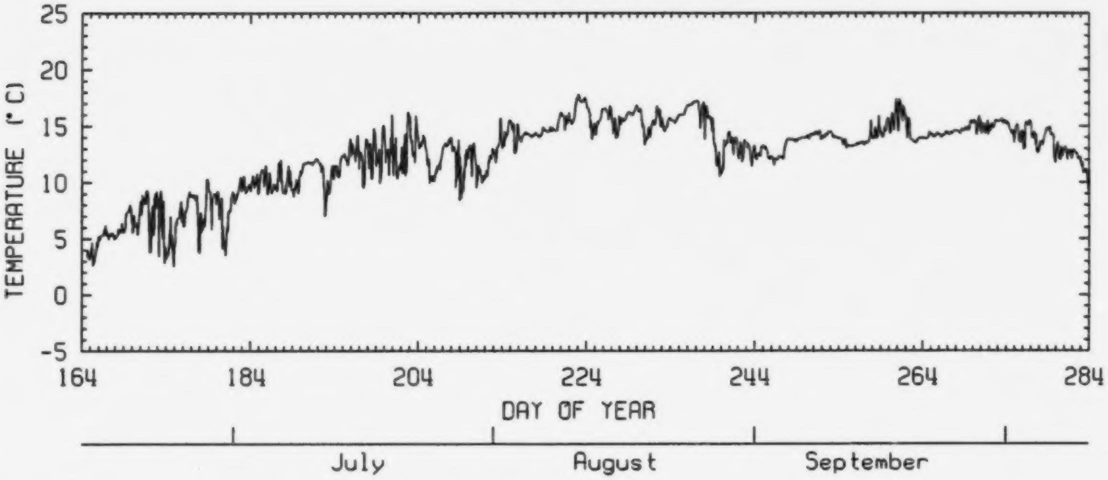
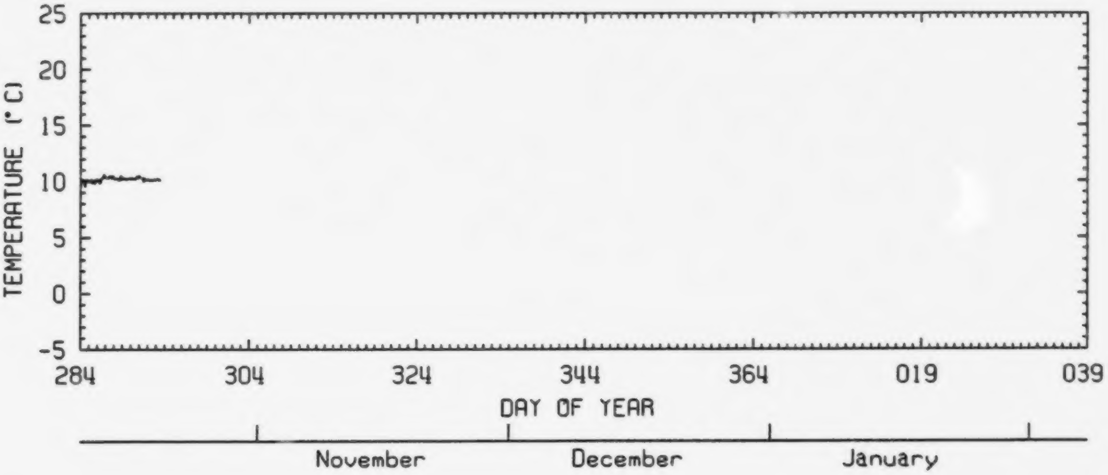
LATITUDE
TERRA NOVA PARK
LONGITUDE





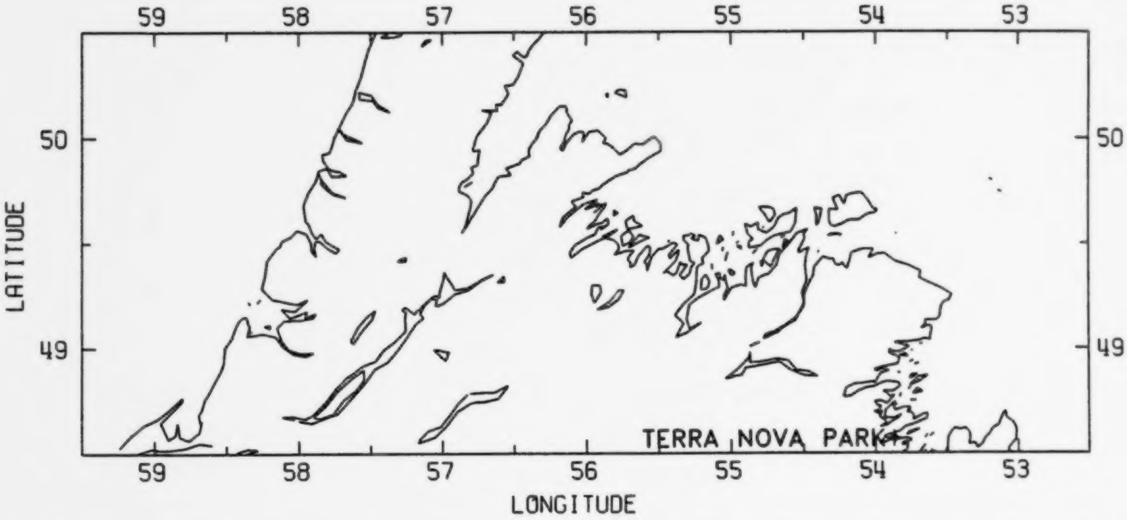
Start: 13-JUN-2003 End: 20-OCT-2003 Inst. S/N: 7408

THERMOGRAPH DATA SUMMARY: Terra Nova (Minchins Cove) (280) 2003

STATION NAME:	Terra Nova (Minchins Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006247
LATITUDE:	48.57° N
LONGITUDE:	53.87° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	4 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2003 14:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.30	177	9.60	181	5.80	1.52	116.0	36.3	466
JUL-2003	6.40	193	14.20	202	10.68	1.13	331.2	207.2	744
AUG-2003	6.40	239	16.60	223	14.17	1.55	439.1	315.1	744
SEP-2003	10.90	245	17.10	261	14.12	0.91	423.5	303.5	720
OCT-2003	8.70	283	14.50	275	11.33	1.51	226.1	146.1	471
T.PERIOD	2.30	177	17.10	261	11.67	3.15	1536.0	1008.2	3145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LATITUDE
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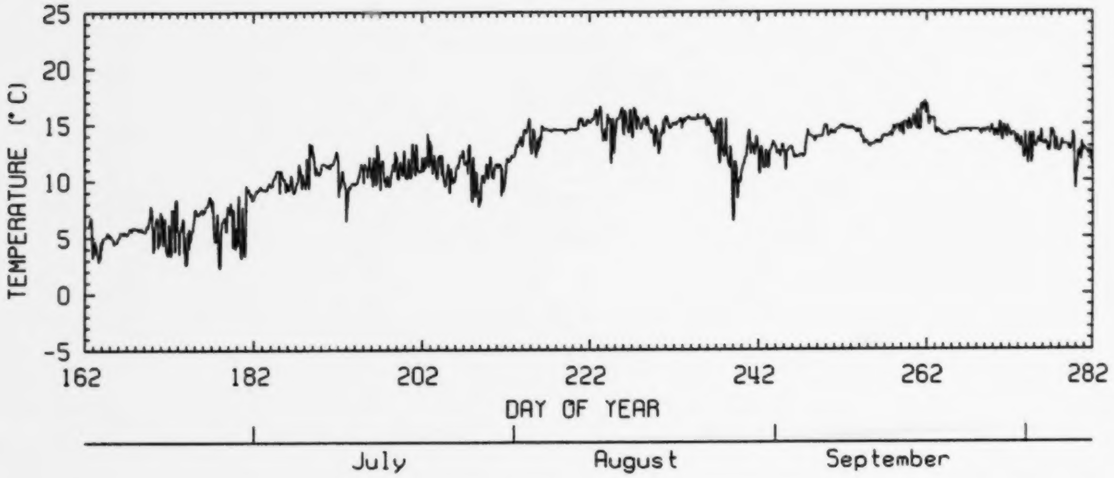
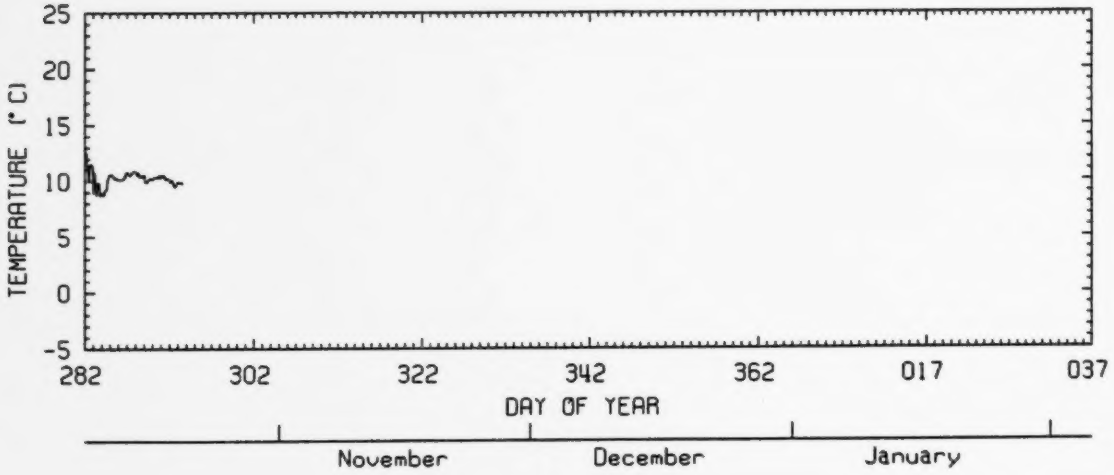
TERRA NOVA PARK





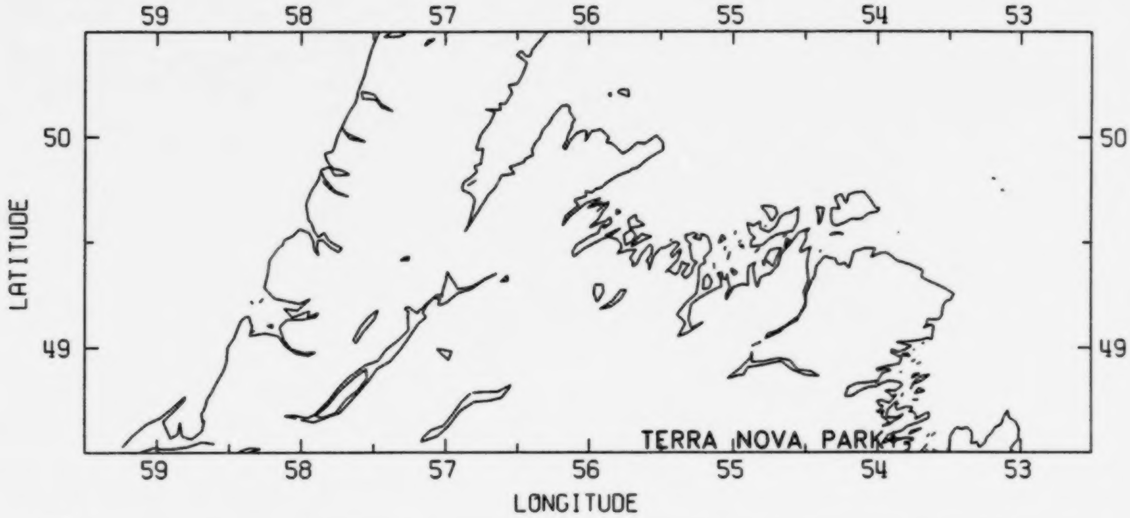
Start:11-JUN-2003 End:20-OCT-2003 Inst. S/N:6247

THERMOGRAPH DATA SUMMARY: Terra Nova (Hefferens Cove) (280) 2003

STATION NAME:	Terra Nova (Hefferens Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006443
LATITUDE:	48.56° N
LONGITUDE:	53.89° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2003 17:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	3.40	163	11.40	181	6.47	1.36	129.3	49.3	463
JUL-2003	8.70	193	14.20	200	11.19	1.10	346.8	222.8	744
AUG-2003	8.40	238	16.90	221	14.60	1.42	452.7	328.7	744
SEP-2003	11.50	246	16.60	261	14.28	0.96	428.5	308.5	720
OCT-2003	7.70	283	14.80	274	11.60	1.70	231.3	151.3	470
T.PERIOD	3.40	163	16.90	221	12.07	3.03	1588.6	1060.6	3141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LATITUDE
TERRA NOVA PARK
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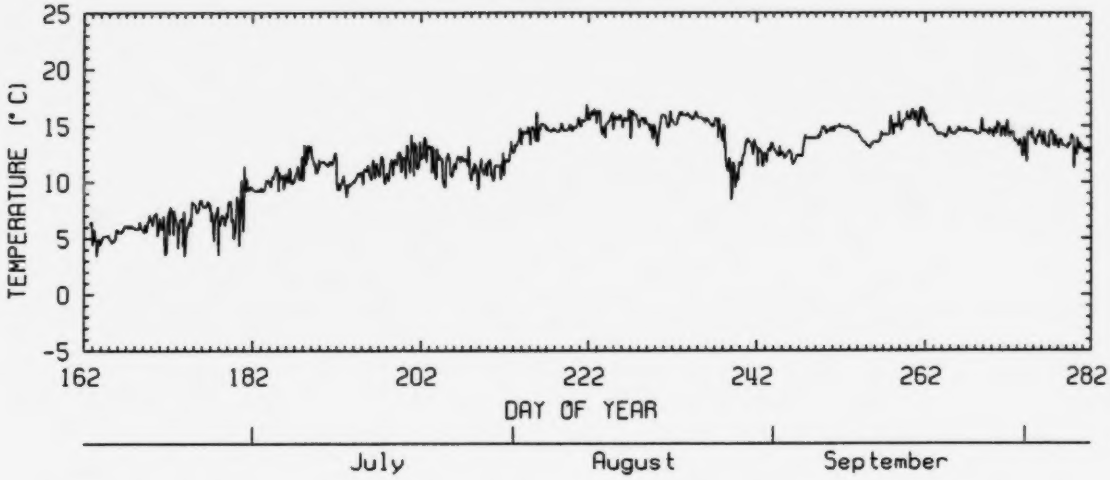
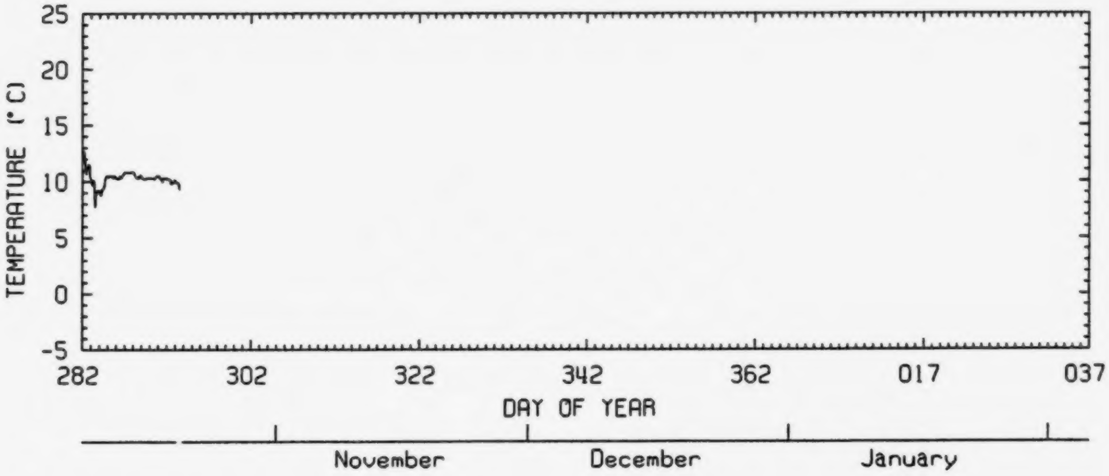




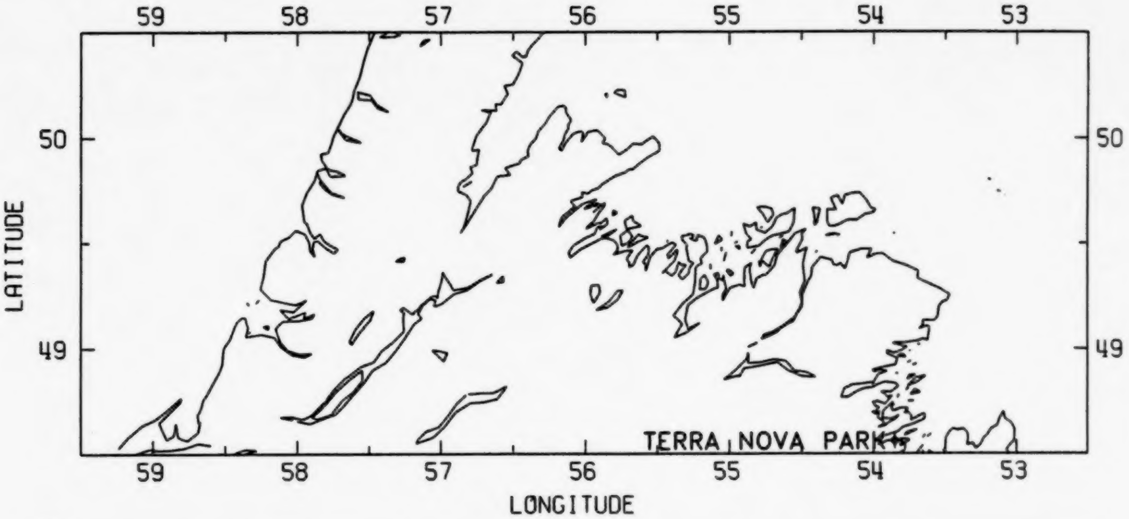
Start:11-JUN-2003 End:20-OCT-2003 Inst. S/N:6443

THERMOGRAPH DATA SUMMARY: Terra Nova (South Broad Cove)(280) 2003

STATION NAME:	Terra Nova (South Broad Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009366
LATITUDE:	48.56° N
LONGITUDE:	53.85° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2003 16:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.90	171	10.30	181	6.41	1.28	109.0	41.0	392
JUL-2003	8.90	192	14.20	189	11.13	1.12	345.1	221.1	744
AUG-2003	9.20	239	16.60	221	14.39	1.43	446.2	322.2	744
SEP-2003	11.50	273	17.10	259	14.41	0.93	432.2	312.2	720
OCT-2003	9.00	283	13.90	275	11.48	1.40	229.1	149.1	472
T.PERIOD	2.90	171	17.10	259	12.14	2.91	1561.6	1045.6	3072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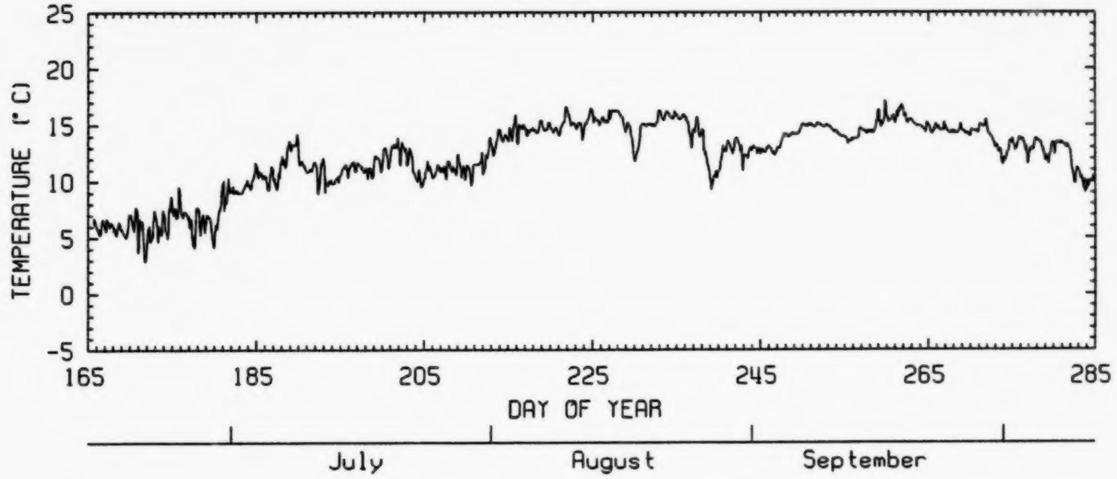
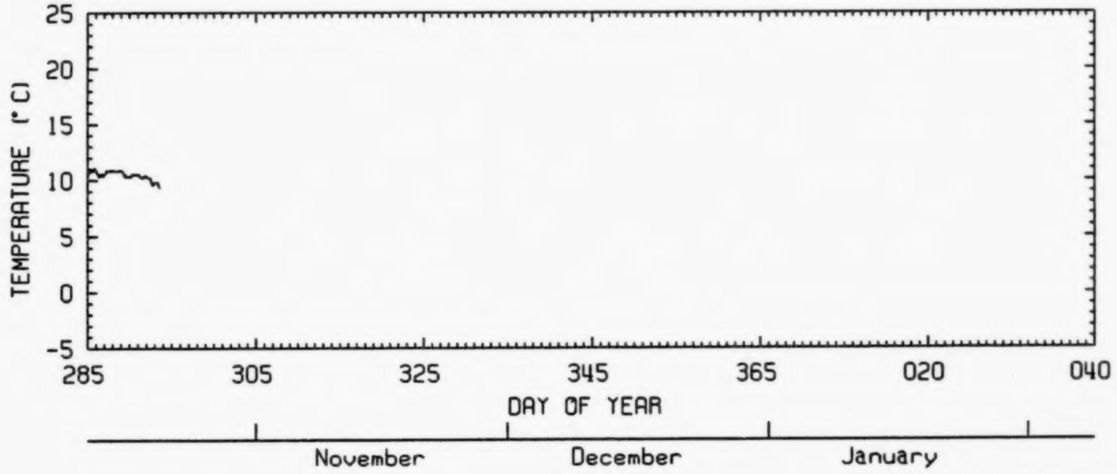




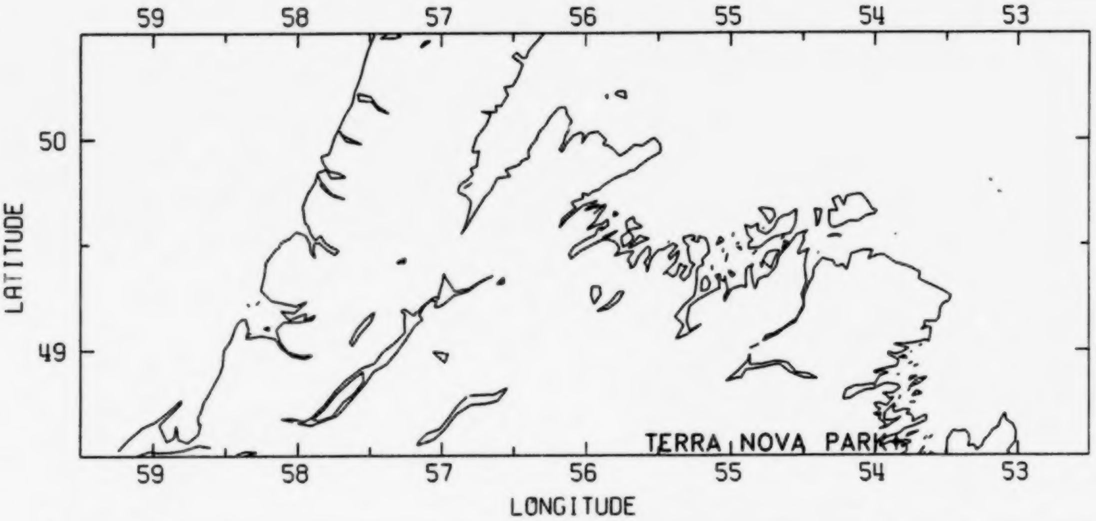
Start: 14-JUN-2003 End: 20-OCT-2003 Inst. S/N: 9366

THERMOGRAPH DATA SUMMARY: Terra Nova (South Broad Cove) (280) 2003

STATION NAME:	Terra Nova (South Broad Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009368
LATITUDE:	48.56° N
LONGITUDE:	53.85° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	14-JUN-2003 17:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.90	171	11.10	181	6.15	1.31	104.8	36.8	391
JUL-2003	8.10	192	14.50	189	10.94	1.11	339.1	215.1	744
AUG-2003	9.60	239	16.50	224	14.25	1.45	441.9	317.9	744
SEP-2003	11.70	273	17.20	259	14.36	0.90	430.7	310.7	720
OCT-2003	8.70	283	13.90	275	11.41	1.39	227.7	147.7	472
T.PERIOD	2.90	171	17.20	259	12.01	2.95	1544.2	1028.2	3071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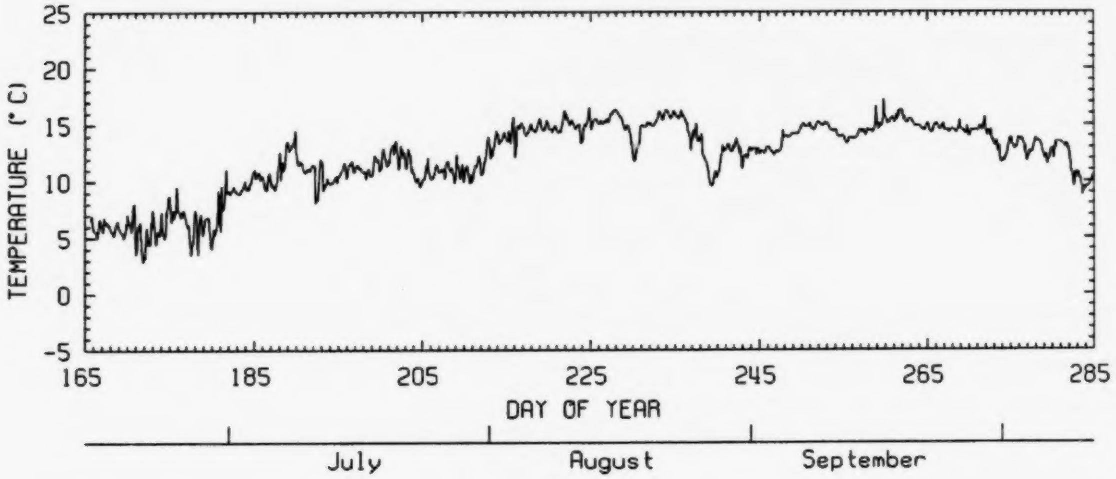
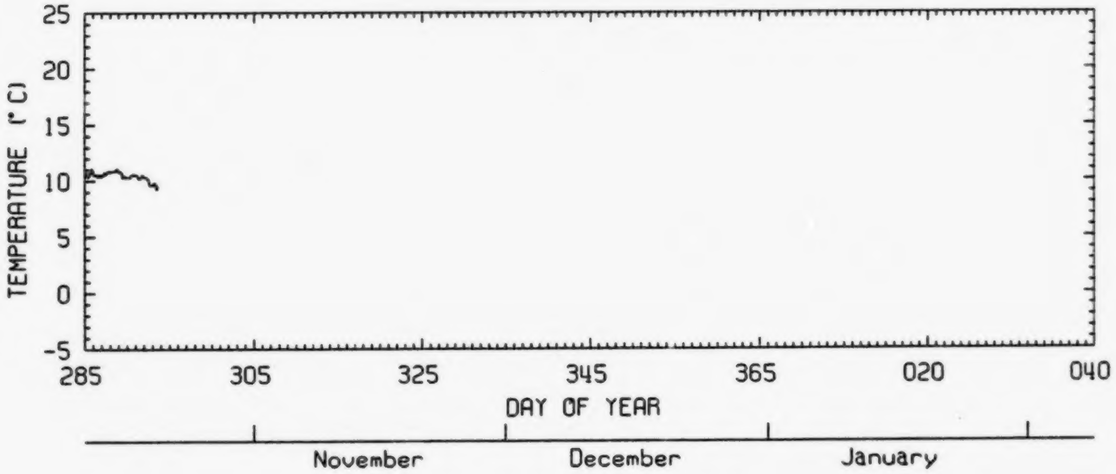
TERRA NOVA PARK





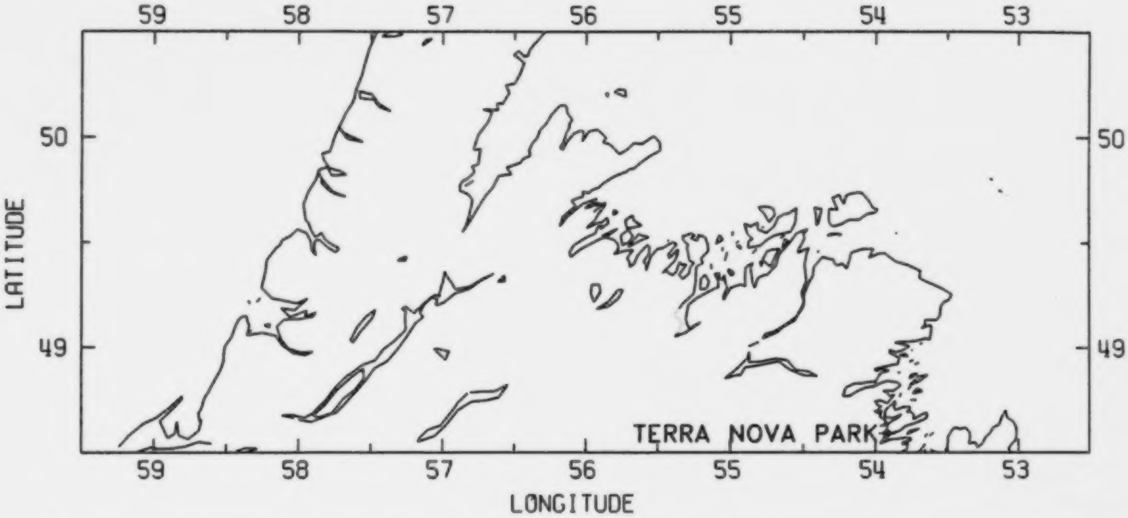
Start:14-JUN-2003 End:20-OCT-2003 Inst. S/N:9368

THERMOGRAPH DATA SUMMARY: Terra Nova (Mistaken Cove) (280) 2003

STATION NAME:	Terra Nova (Mistaken Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007418
LATITUDE:	48.59° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2003 14:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	3.50	165	11.80	180	7.35	1.73	130.5	58.5	418
JUL-2003	8.40	192	16.50	202	12.15	1.60	376.7	252.7	744
AUG-2003	9.90	239	17.80	222	15.16	1.52	470.0	346.0	744
SEP-2003	12.10	246	17.40	260	14.42	1.05	432.6	312.7	720
OCT-2003	9.80	284	15.70	274	12.13	2.01	241.8	161.8	469
T.PERIOD	3.50	165	17.80	222	12.75	2.93	1651.6	1131.6	3095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LATITUDE
TERRA NOVA PARK
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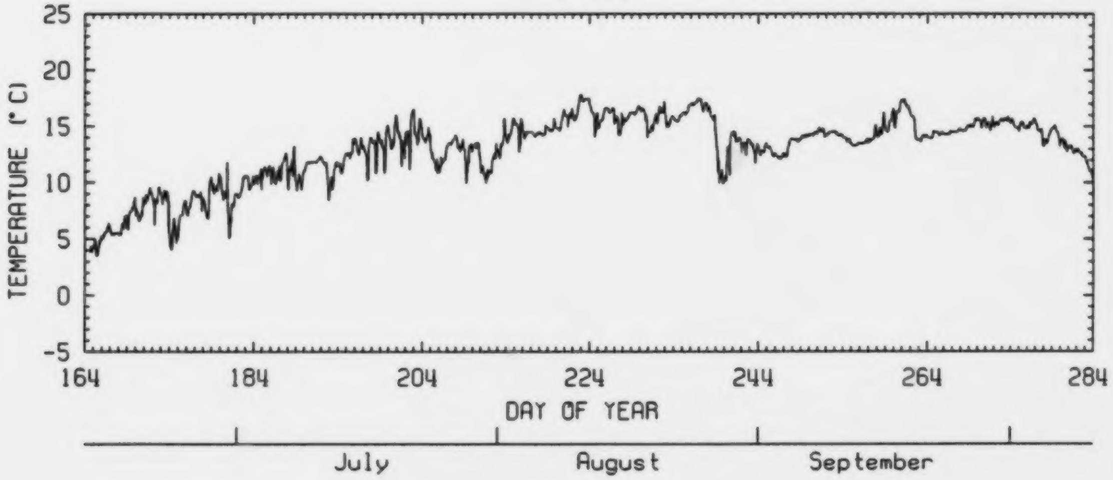
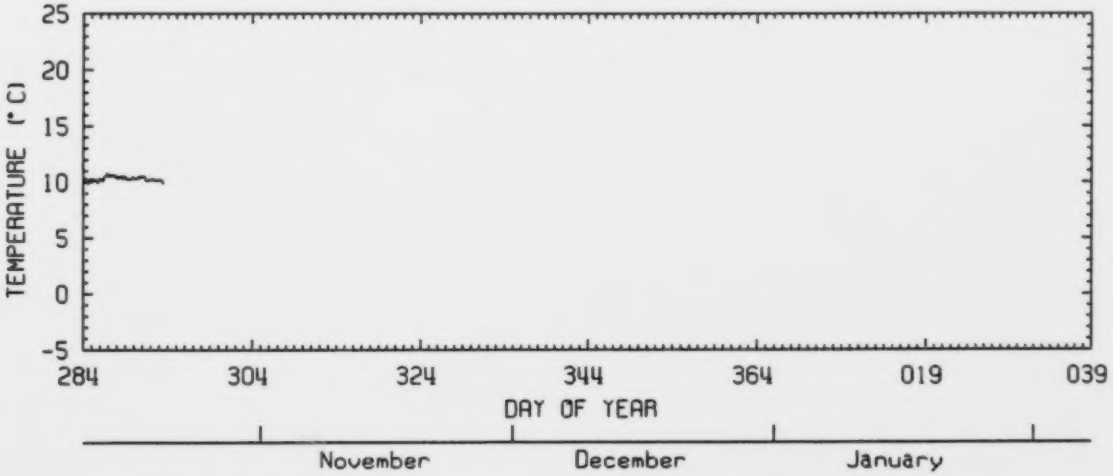




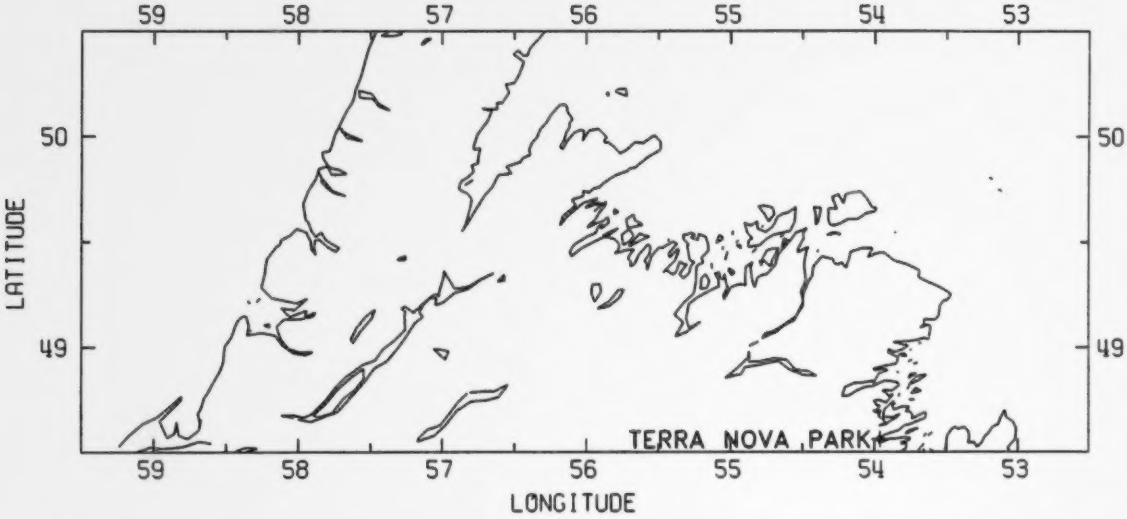
Start: 13-JUN-2003 End: 20-OCT-2003 Inst. S/N: 7418

THERMOGRAPH DATA SUMMARY: Terra Nova (Dockside) (280) 2003

STATION NAME:	Terra Nova (Dockside)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007412
LATITUDE:	48.56° N
LONGITUDE:	53.96° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	4 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2003 18:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.90	178	11.20	181	7.05	1.51	126.5	54.5	414
JUL-2003	8.40	210	14.90	212	11.02	1.09	341.8	217.8	744
AUG-2003	9.90	239	17.40	224	14.63	1.59	453.6	329.6	744
SEP-2003	10.60	244	17.20	259	14.08	1.09	422.3	302.3	720
OCT-2003	8.70	284	15.10	274	11.86	1.83	236.3	156.3	469
T.PERIOD	2.90	178	17.40	224	12.20	2.85	1580.4	1060.4	3091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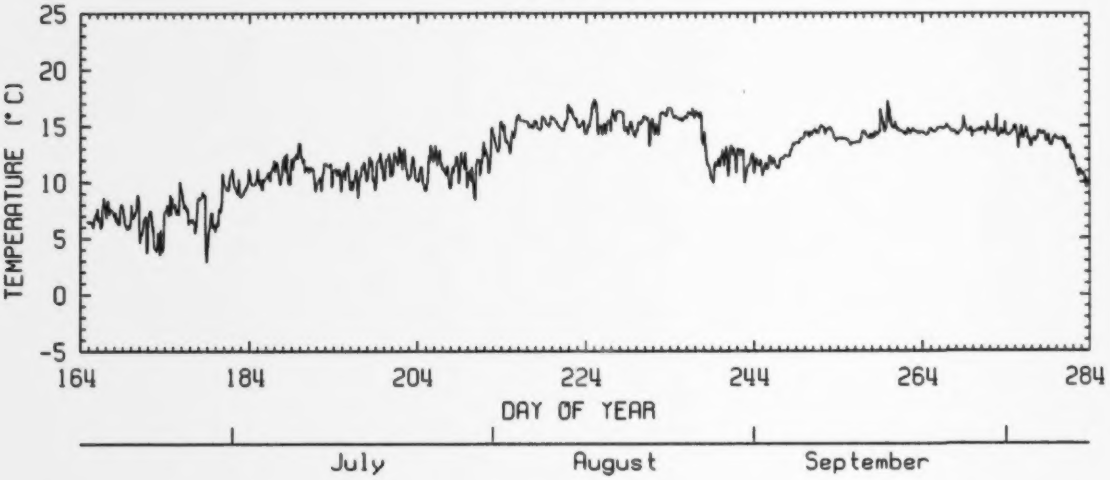
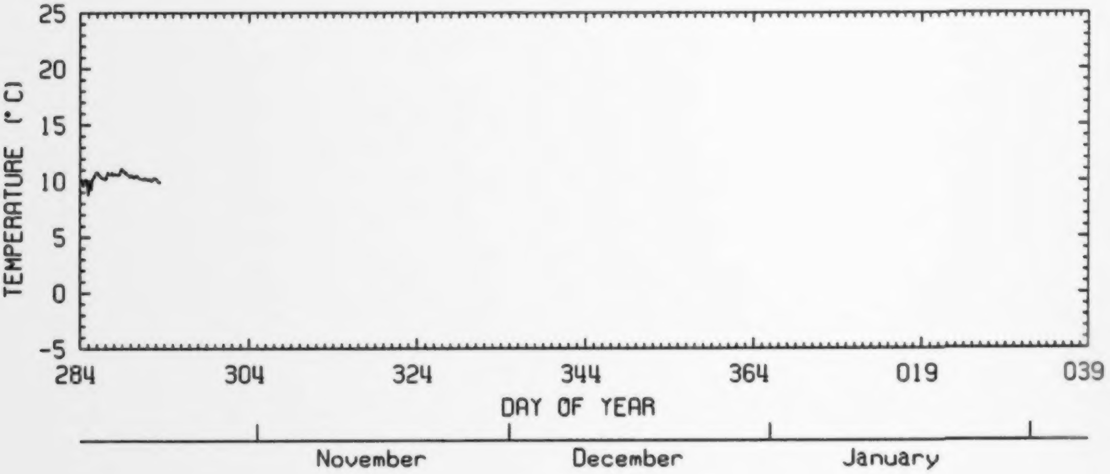
LATITUDE
LONGITUDE
TERRA NOVA PARK





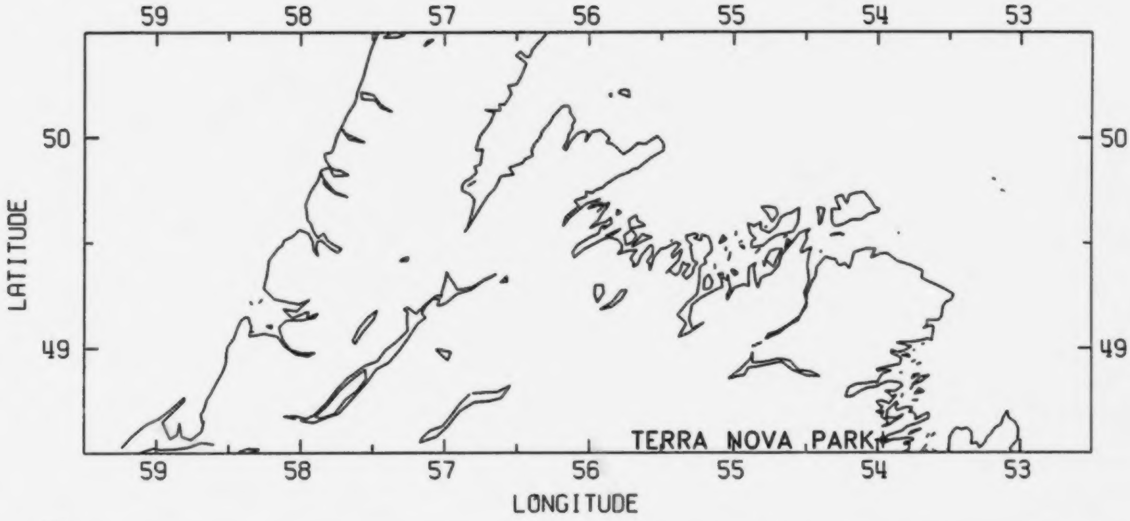
Start:13-JUN-2003 End:20-OCT-2003 Inst. S/N:7412

THERMOGRAPH DATA SUMMARY: Terra Nova (Dockside) (280) 2003

STATION NAME:	Terra Nova (Dockside)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004019
LATITUDE:	48.56° N
LONGITUDE:	53.96° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2003 17:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	3.20	173	10.90	180	6.85	1.50	122.8	50.8	415
JUL-2003	8.10	210	14.50	212	10.90	1.11	337.8	213.8	744
AUG-2003	9.50	242	17.40	224	14.45	1.59	448.1	324.1	744
SEP-2003	10.10	244	16.90	259	13.90	1.10	416.9	296.9	720
OCT-2003	8.40	284	14.60	274	11.51	1.78	229.3	149.3	468
T.PERIOD	3.20	173	17.40	224	12.00	2.85	1554.9	1034.9	3091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LATITUDE
TERRA NOVA PARK
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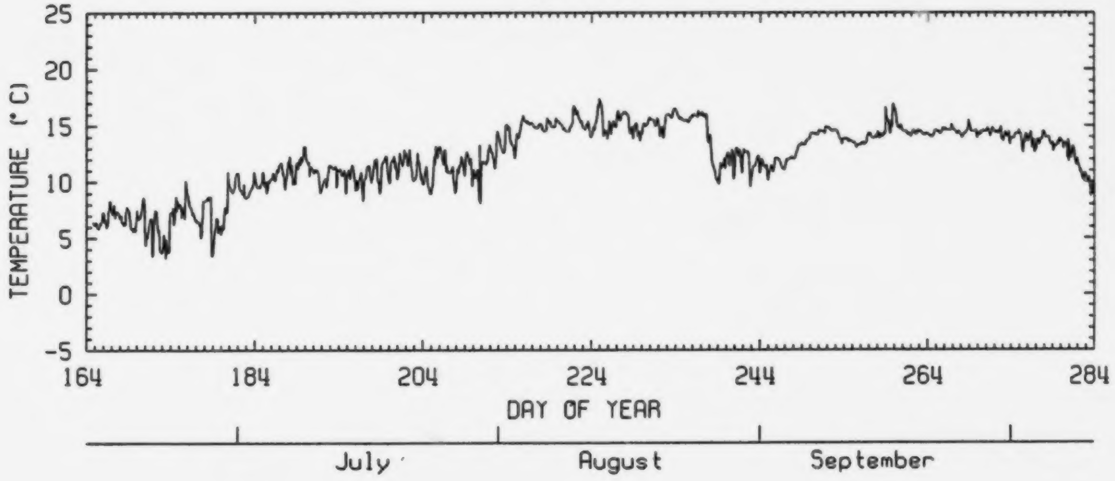
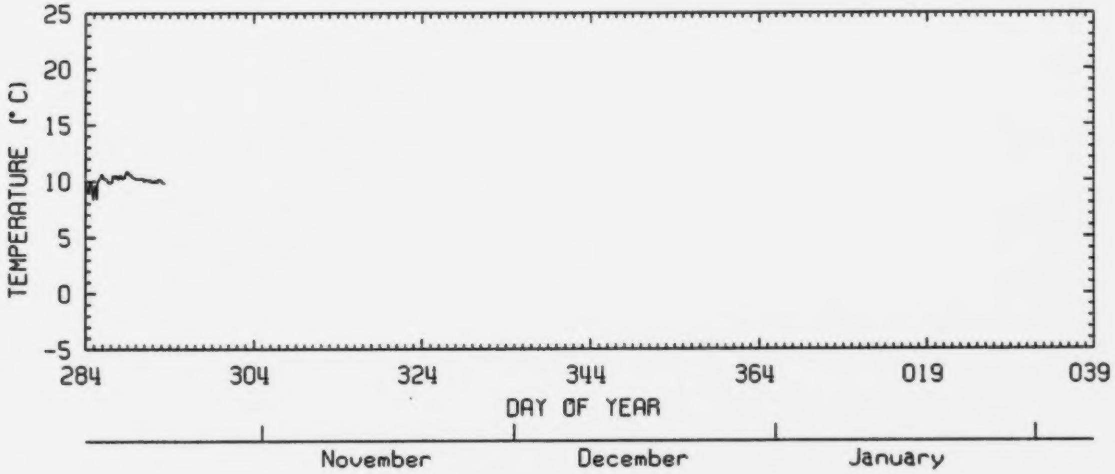




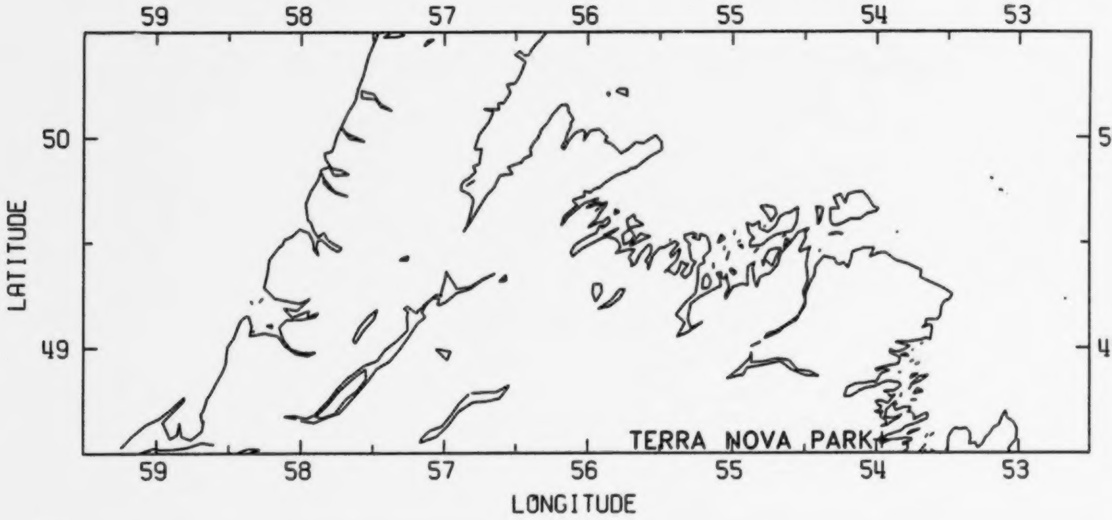
Start: 13-JUN-2003 End: 20-OCT-2003 Inst. S/N: 4019

THERMOGRAPH DATA SUMMARY: Terra Nova (Dockside) (280) 2003

STATION NAME:	Terra Nova (Dockside)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006436
LATITUDE:	48.56° N
LONGITUDE:	53.96° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-MAY-2003 18:00 GMT
RECOVERY DATE/TIME:	31-DEC-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	5.50	147	8.90	148	7.39	0.76	36.3	16.3	102
JUN-2003	1.40	155	10.30	181	6.19	1.62	185.8	68.3	720
JUL-2003	8.70	183	13.50	212	10.60	0.82	328.5	204.5	744
AUG-2003	9.90	239	17.10	224	14.41	1.54	446.8	322.8	744
SEP-2003	10.50	244	16.80	259	13.91	1.08	417.4	297.4	720
OCT-2003	6.70	304	14.80	275	10.49	2.13	325.1	201.1	744
NOV-2003	3.70	316	7.50	305	4.92	0.77	147.7	27.8	720
DEC-2003	1.30	350	4.90	335	2.64	0.70	81.6	0.9	732
T.PERIOD	1.30	350	17.10	224	9.02	4.36	1969.2	1139.1	5226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LATITUDE
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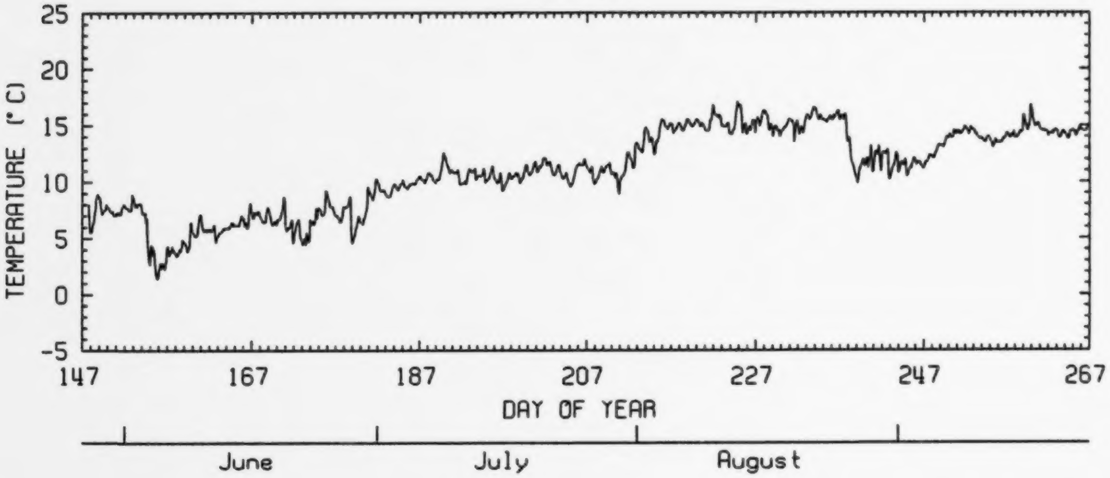
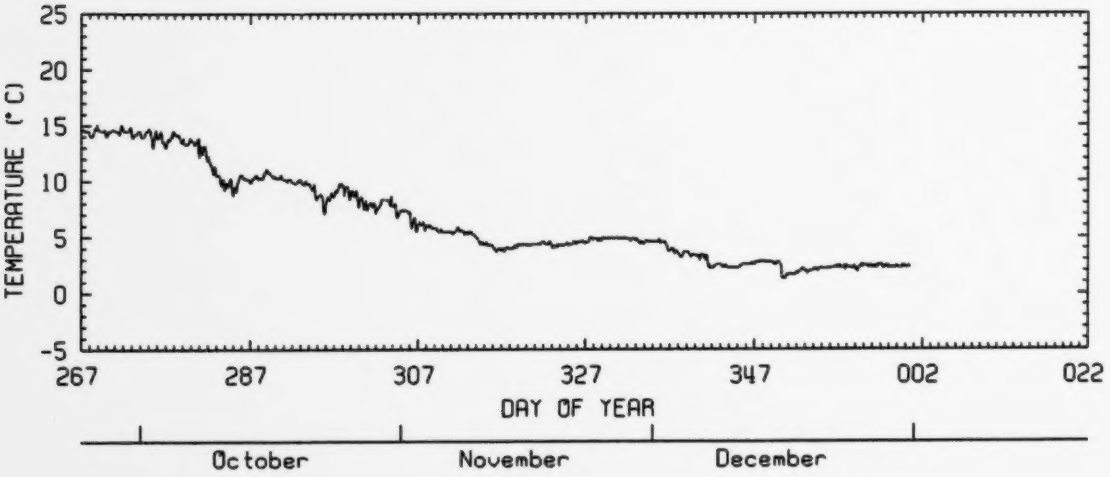




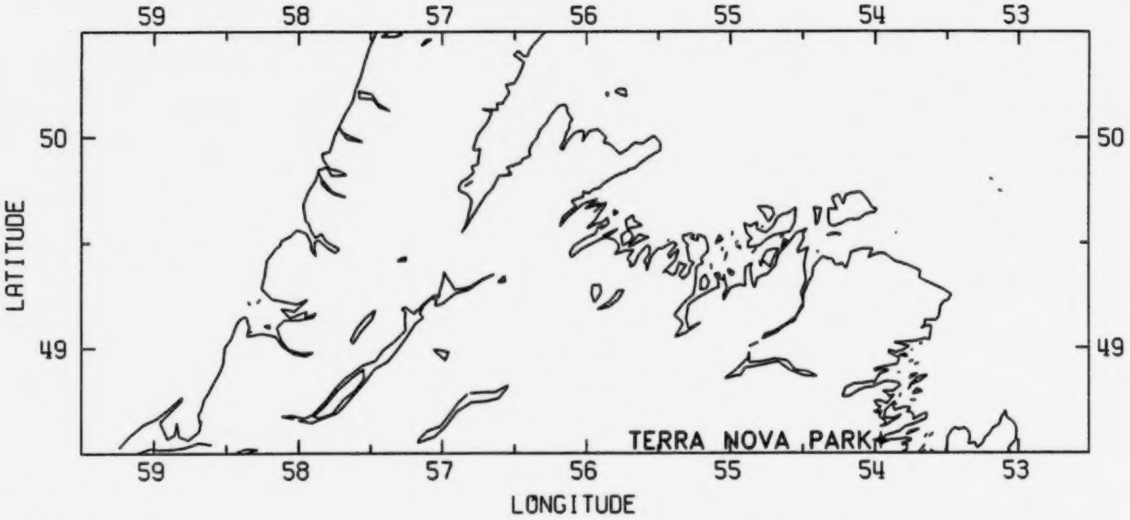
Start:27-MAY-2003 End:31-DEC-2003 Inst. S/N:6436

THERMOGRAPH DATA SUMMARY: Terra Nova (Dockside) (280) 2004

STATION NAME:	Terra Nova (Dockside)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006436
LATITUDE:	48.56° N
LONGITUDE:	53.96° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JAN-2004 18:00 GMT
RECOVERY DATE/TIME:	26-APR-2004 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JAN-2004	-1.00	16	2.50	2	0.60	1.01	23.2	0.0	726
FEB-2004	-0.90	49	0.80	43	-0.01	0.30	2.5	0.0	696
MAR-2004	-0.90	67	1.30	91	0.00	0.38	3.7	0.0	744
APR-2004	-0.30	92	2.90	115	1.21	0.60	31.6	0.0	612
T.PERIOD	-1.00	16	2.90	115	0.42	0.81	61.0	0.0	2778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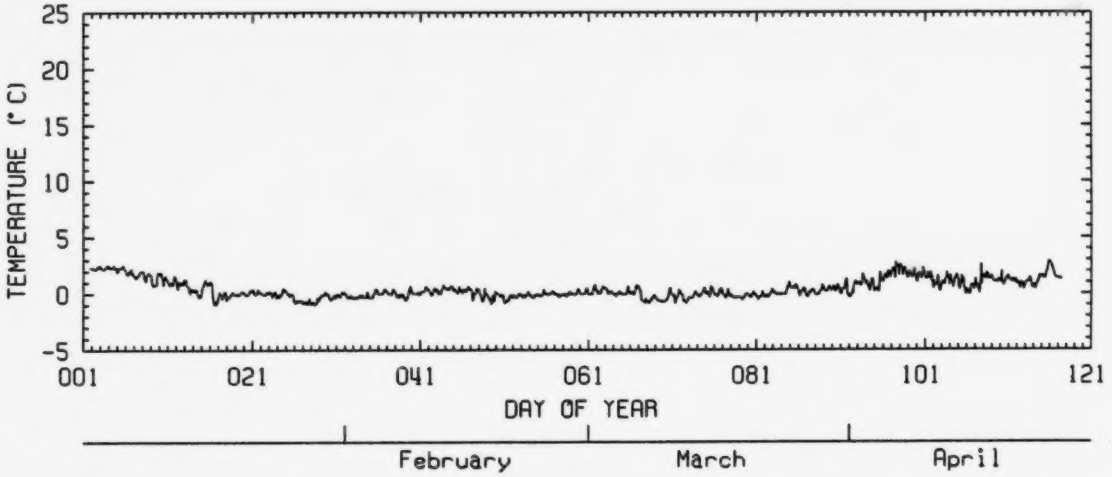


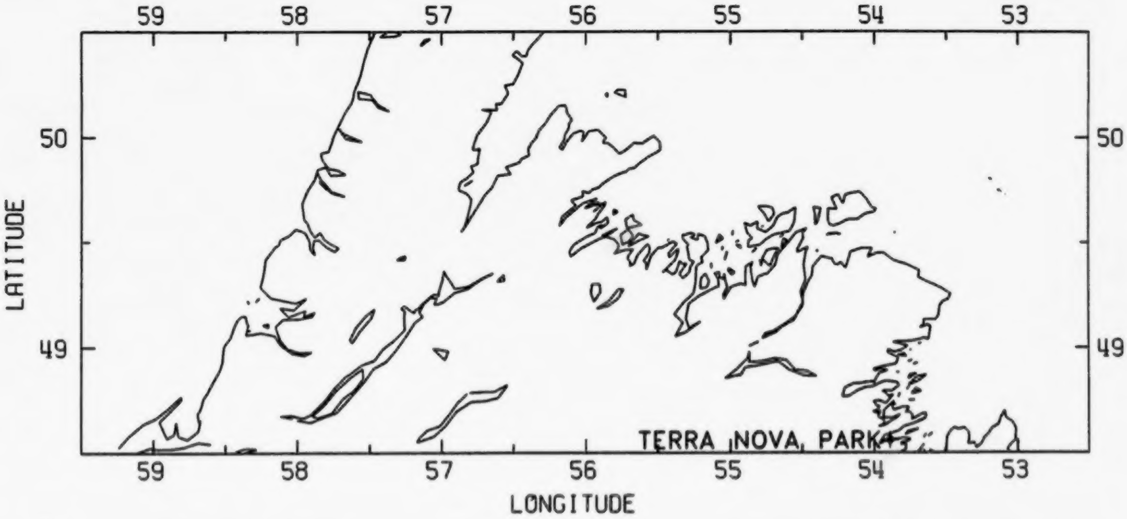
Start: 1-JAN-2004 End: 26-APR-2004 Inst. S/N:6436

THERMOGRAPH DATA SUMMARY: Terra Nova (Hefferens Cove) (280) 2003

STATION NAME:	Terra Nova (Hefferens Cove)
STATION NUMBER:	280
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007416
LATITUDE:	48.56° N
LONGITUDE:	53.89° W
INSTRUMENT DEPTH:	4 m
WATER DEPTH:	4 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2003 16:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	1.70	163	9.60	181	5.64	1.55	112.3	32.9	464
JUL-2003	4.90	192	13.80	202	10.60	1.07	328.7	204.7	744
AUG-2003	6.70	239	16.50	226	14.12	1.60	437.6	313.6	744
SEP-2003	10.30	244	16.60	261	14.02	0.94	420.5	300.5	720
OCT-2003	6.40	283	14.50	274	11.27	1.57	224.8	144.8	470
T.PERIOD	1.70	163	16.60	261	11.58	3.19	1523.9	996.5	3142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LATITUDE
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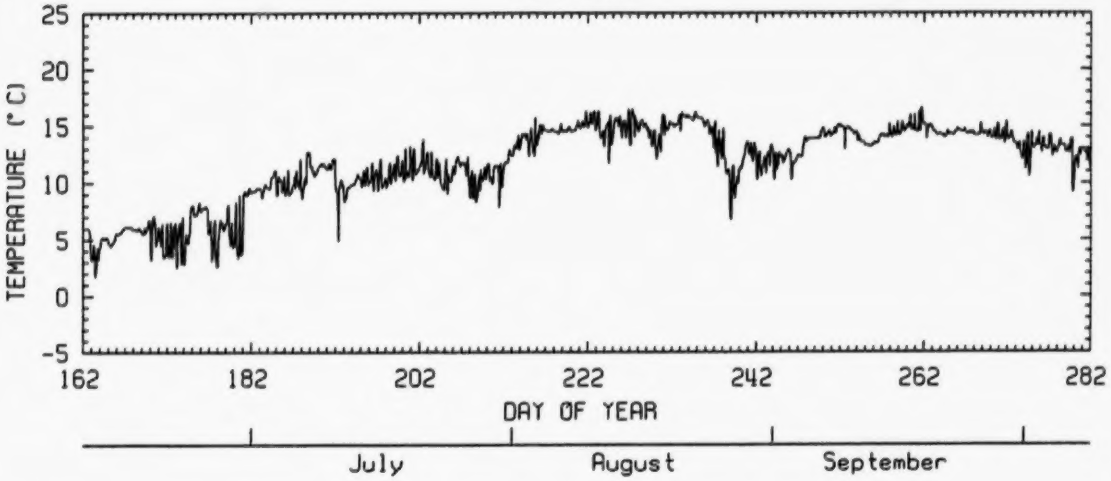
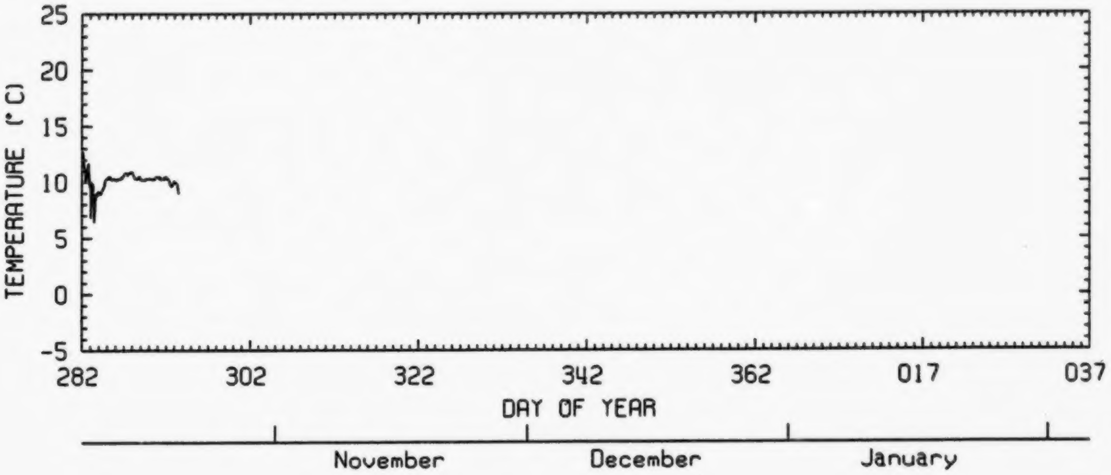
TERRA NOVA PARK





Start:11-JUN-2003 End:20-OCT-2003 Inst. S/N:7416

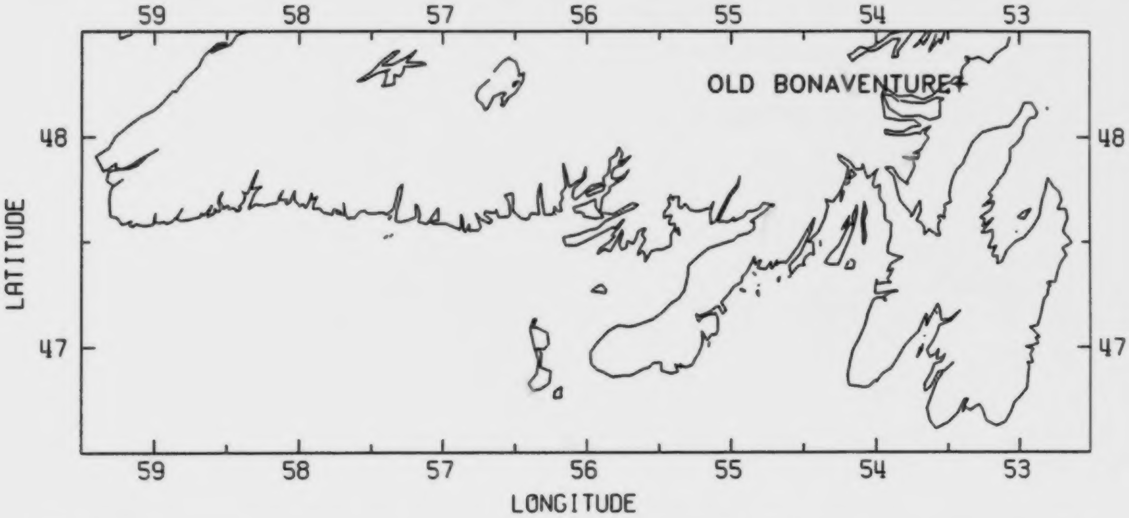
Appendix 8. Time Series Plots and Monthly Statistics from Unit Area 3Lb

THERMOGRAPH DATA SUMMARY: OLD BONAVENTURE (100) 2003

STATION NAME:	OLD BONAVENTURE
STATION NUMBER:	100
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003810
LATITUDE:	48.25° N
LONGITUDE:	53.42° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	40 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	31-MAY-2003 15:00 GMT
RECOVERY DATE/TIME:	08-NOV-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	3.80	151	4.40	151	3.98	0.19	4.0	0.0	9
JUN-2003	-0.80	156	7.50	181	3.11	1.38	93.2	5.3	720
JUL-2003	2.10	192	10.50	206	6.12	1.62	189.8	68.0	744
AUG-2003	4.00	239	14.10	233	10.24	2.44	317.3	193.3	744
SEP-2003	5.20	254	14.40	252	11.50	1.90	345.0	225.0	720
OCT-2003	2.20	302	11.50	278	7.65	2.48	237.2	114.0	744
NOV-2003	1.60	305	7.60	308	6.54	1.42	52.6	20.6	183
T.PERIOD	-0.80	156	14.40	252	7.66	3.52	1239.1	626.3	3864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OLD BONAVENTURE+
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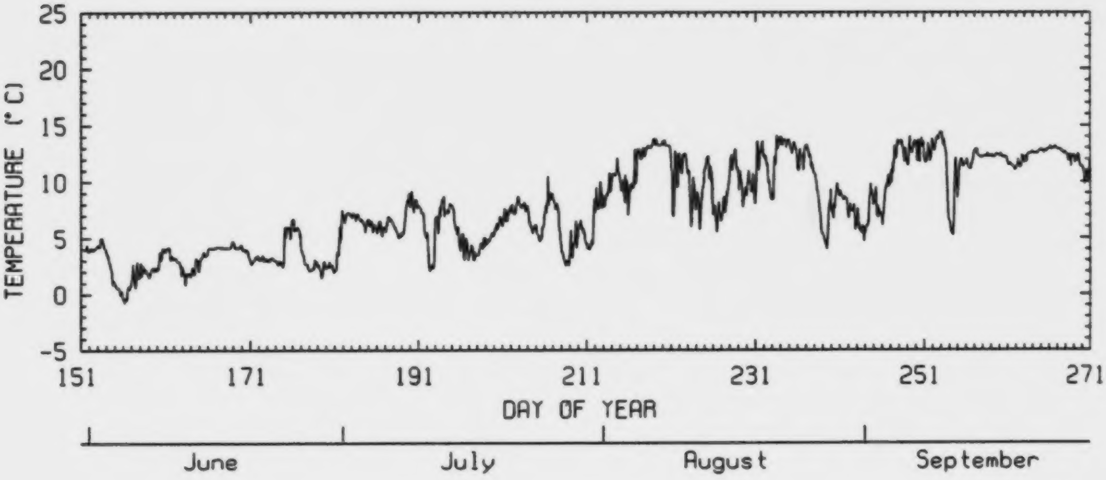
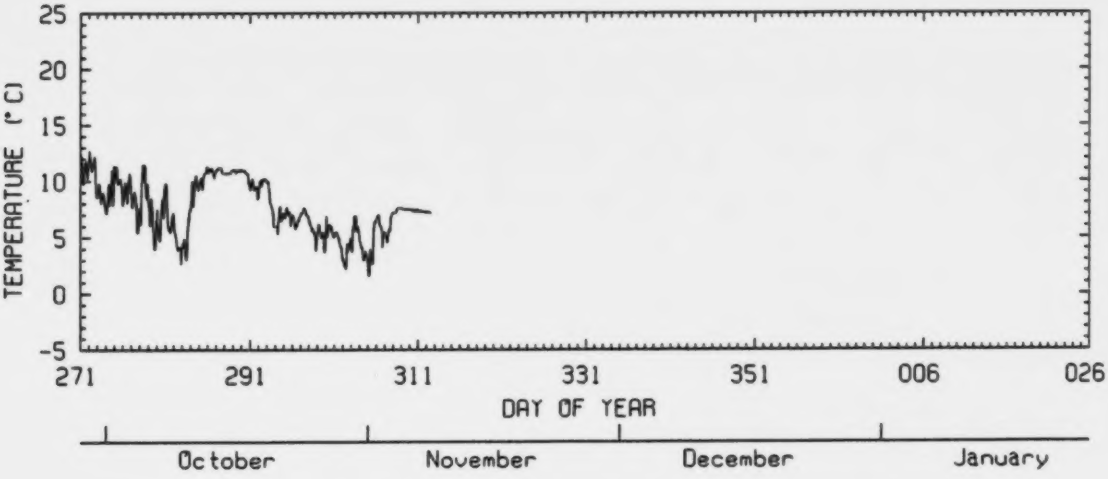
LATITUDE
LONGITUDE





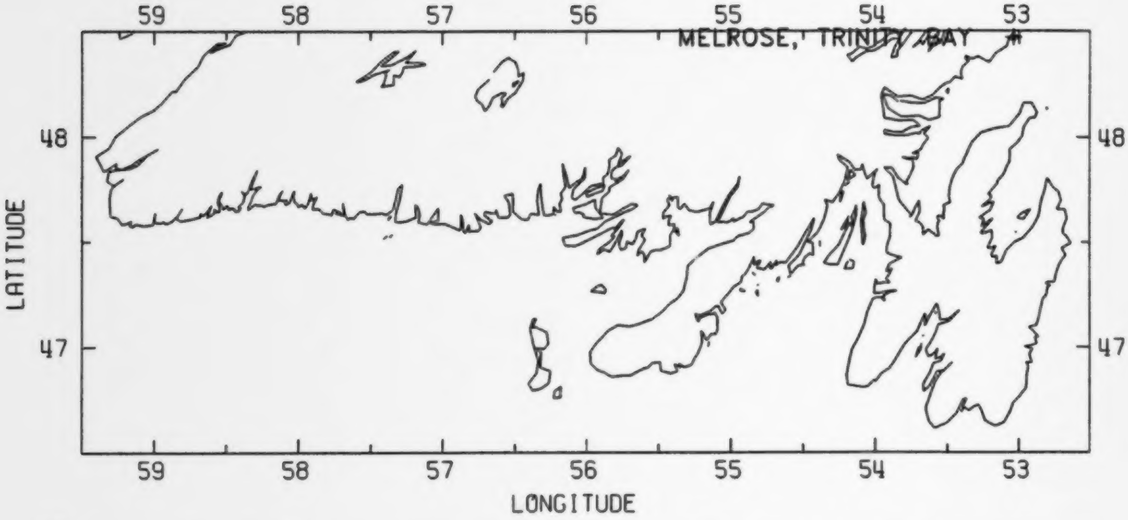
Start:31-MAY-2003 End: 8-NOV-2003 Inst. S/N:3810

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2003

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002180
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-MAY-2003 14:00 GMT
RECOVERY DATE/TIME:	03-NOV-2003 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	1.40	142	4.20	149	2.95	0.86	31.8	0.0	250
JUN-2003	-0.70	154	8.80	181	4.25	1.88	127.8	24.5	720
JUL-2003	2.70	191	16.30	205	9.28	2.49	287.6	163.6	744
AUG-2003	6.60	241	15.00	233	12.94	1.63	401.3	277.3	744
SEP-2003	8.30	253	15.30	244	12.97	1.32	389.1	269.1	720
OCT-2003	3.60	304	12.40	275	9.33	1.88	289.3	165.3	744
NOV-2003	0.90	306	10.70	306	5.10	3.24	14.6	5.1	67
T.PERIOD	-0.70	154	16.30	205	9.26	3.98	1541.5	904.9	3989



MELROSE, TRINITY BAY
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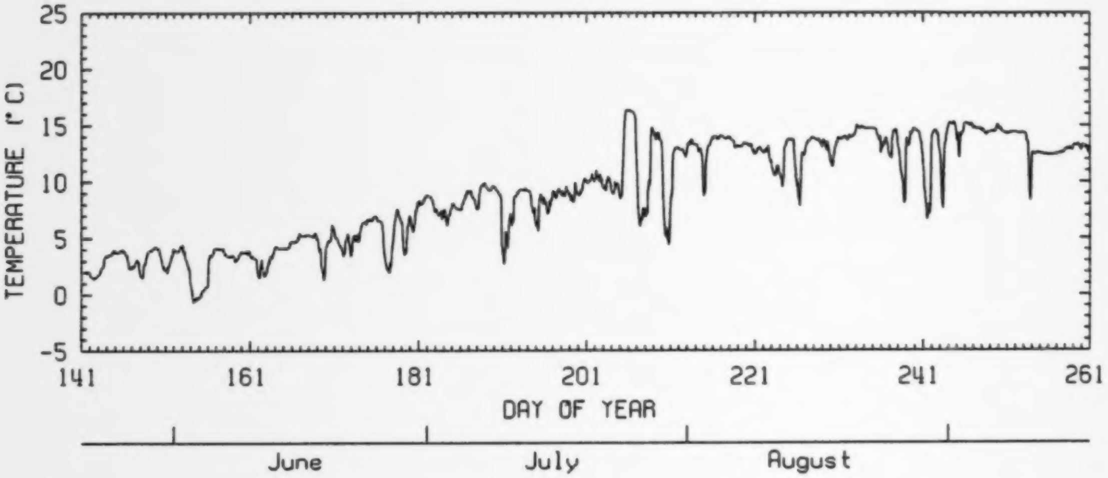
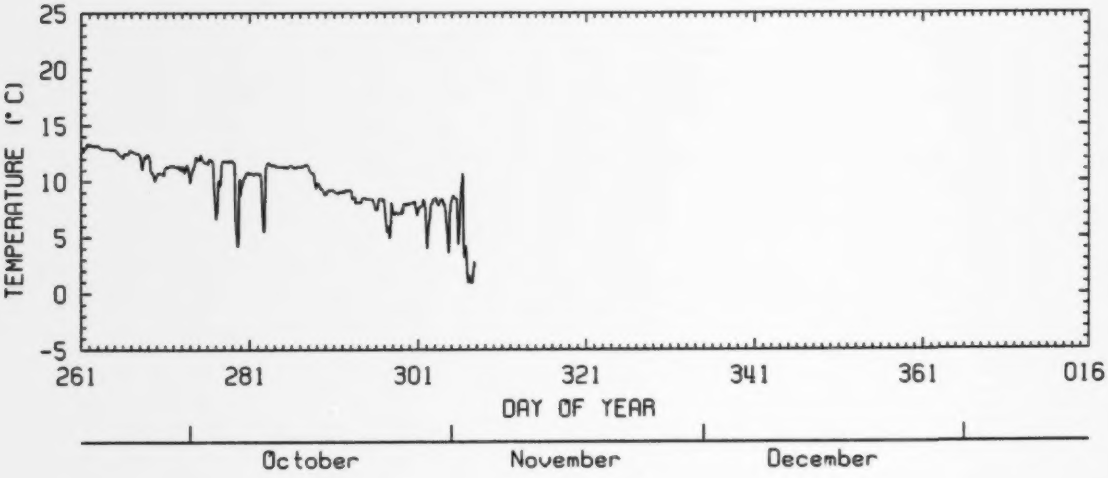




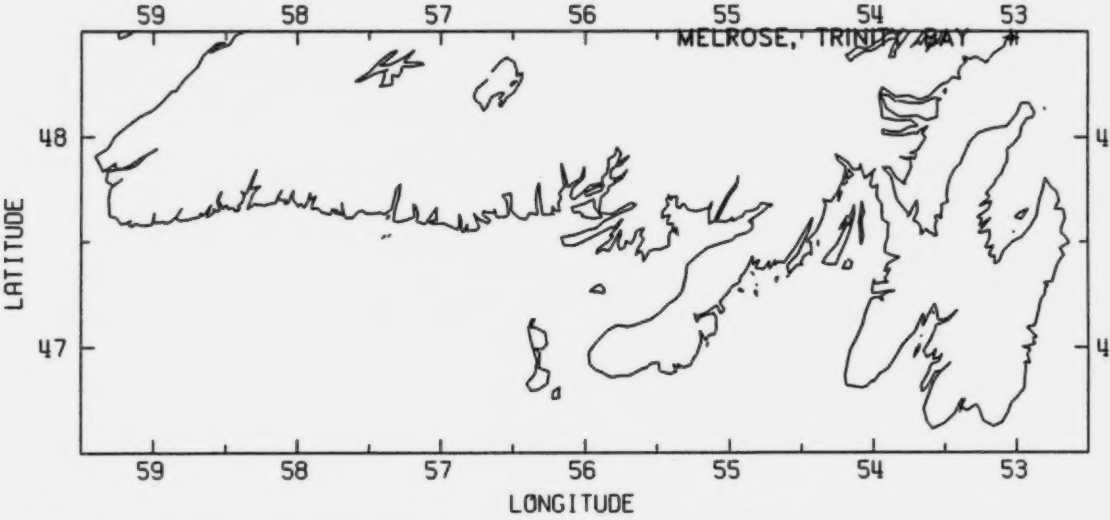
Start:21-MAY-2003 End: 3-NOV-2003 Inst. S/N:2180

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2003

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003864
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-MAY-2003 14:00 GMT
RECOVERY DATE/TIME:	03-NOV-2003 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	0.90	151	4.10	149	2.46	0.99	26.5	0.0	250
JUN-2003	-0.90	154	8.70	181	3.74	1.98	112.7	17.8	720
JUL-2003	2.20	191	16.10	205	8.41	2.42	260.9	136.9	744
AUG-2003	5.20	241	14.80	233	12.04	2.13	373.2	249.2	744
SEP-2003	6.90	253	15.10	244	12.56	1.49	376.9	256.9	720
OCT-2003	2.30	279	11.90	275	8.81	2.26	273.1	149.2	744
NOV-2003	0.70	306	10.50	306	4.95	3.22	14.1	4.8	67
T.PERIOD	-0.90	154	16.10	205	8.64	4.02	1437.4	814.7	3989


MELROSE, TRINITY BAY
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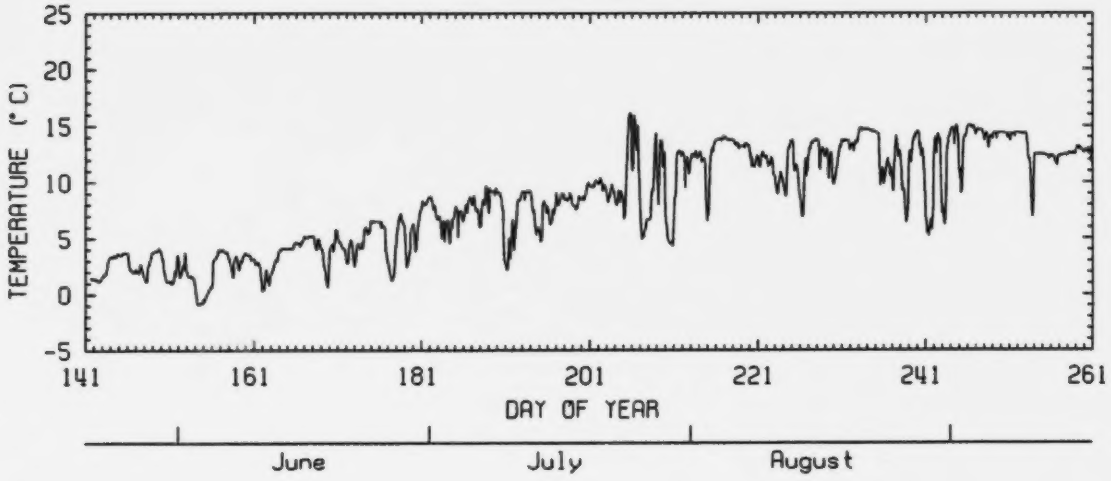
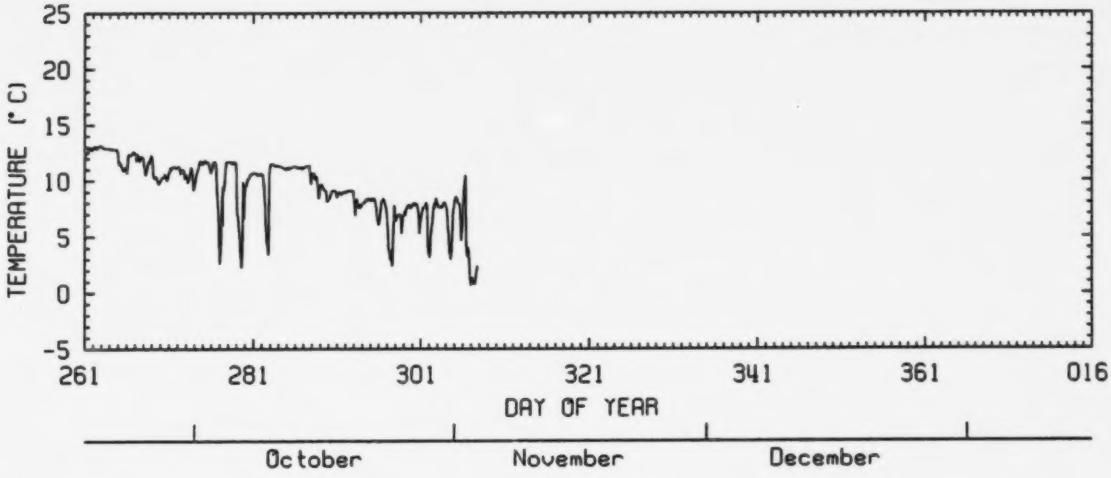
LONGITUDE





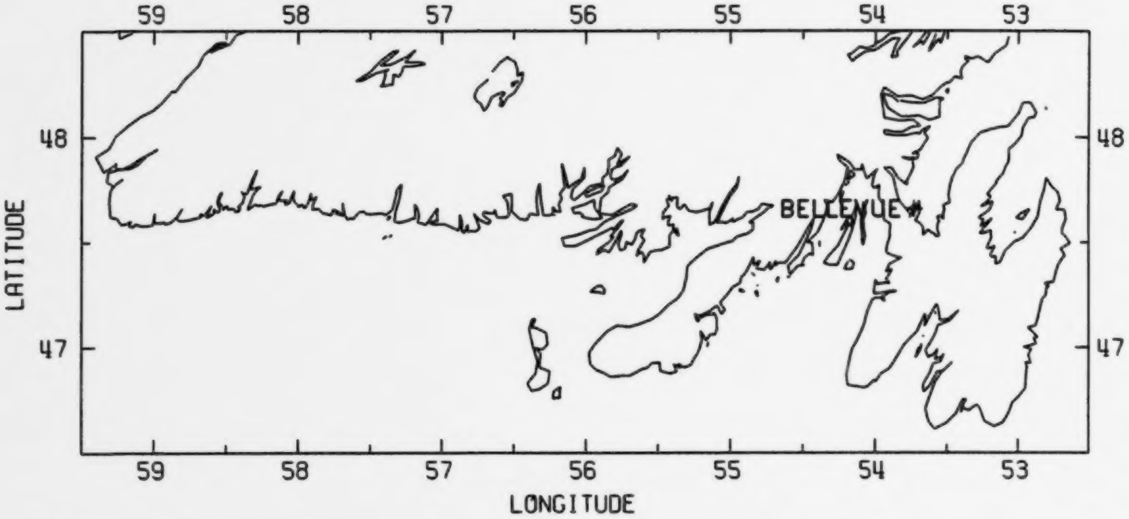
Start:21-MAY-2003 End: 3-NOV-2003 Inst. S/N:3864

THERMOGRAPH DATA SUMMARY: BELLEVUE (146) 2003

STATION NAME:	BELLEVUE
STATION NUMBER:	146
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009498
LATITUDE:	47.66° N
LONGITUDE:	53.73° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2003 18:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	3.80	180	9.60	181	6.23	1.86	24.7	8.7	78
JUL-2003	3.20	186	10.90	189	5.60	1.80	173.7	51.0	744
AUG-2003	4.40	213	13.30	234	9.83	2.40	304.8	180.8	744
SEP-2003	5.80	245	13.90	253	10.93	2.79	186.4	118.4	402
T.PERIOD	3.20	186	13.90	253	8.31	3.22	689.6	358.8	1968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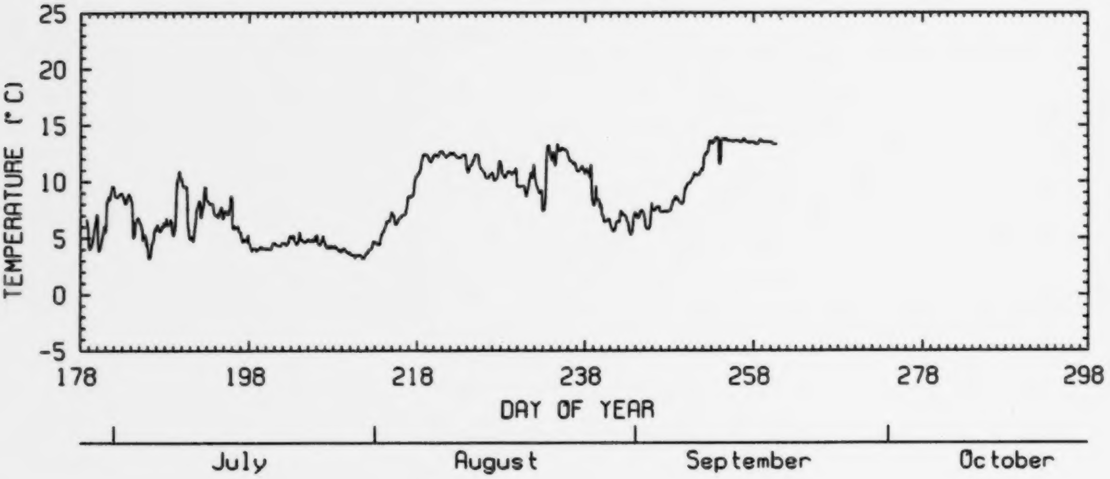
LATITUDE
BELLEVUE
LONGITUDE



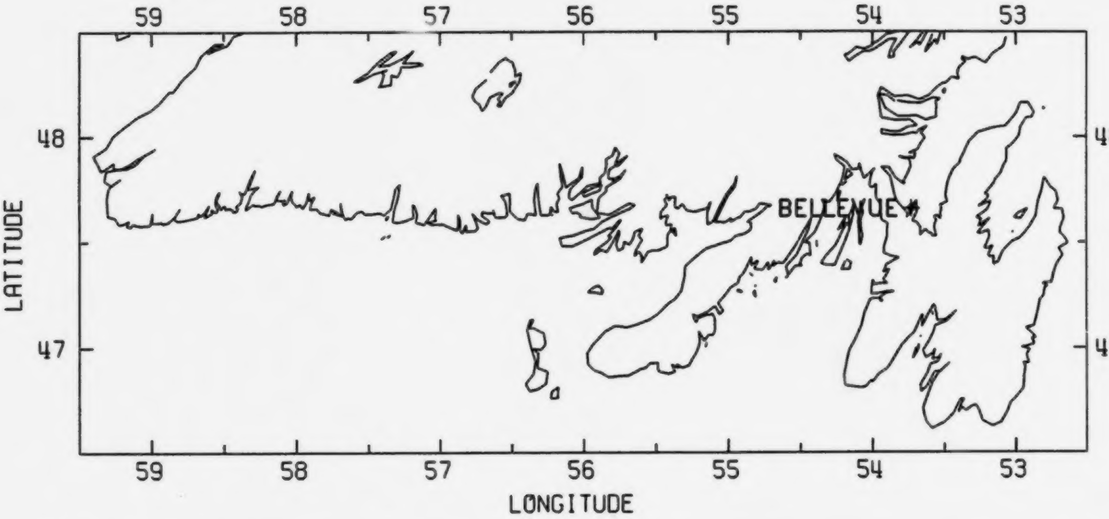
Start: 27-JUN-2003 End: 17-SEP-2003 Inst. S/N:9498

THERMOGRAPH DATA SUMMARY: BELLEVUE (146) 2003

STATION NAME:	BELLEVUE
STATION NUMBER:	146
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009504
LATITUDE:	47.66° N
LONGITUDE:	53.73° W
INSTRUMENT DEPTH:	14 m
WATER DEPTH:	14 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2003 17:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	2.80	180	9.00	181	4.20	1.43	16.6	1.6	79
JUL-2003	1.70	185	9.90	189	4.30	1.42	133.2	19.4	744
AUG-2003	2.90	213	13.30	221	8.58	2.49	266.1	142.2	744
SEP-2003	4.70	244	14.50	252	10.21	2.99	174.2	106.2	401
T.PERIOD	1.70	185	14.50	252	7.12	3.33	590.1	269.4	1968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LATITUDE
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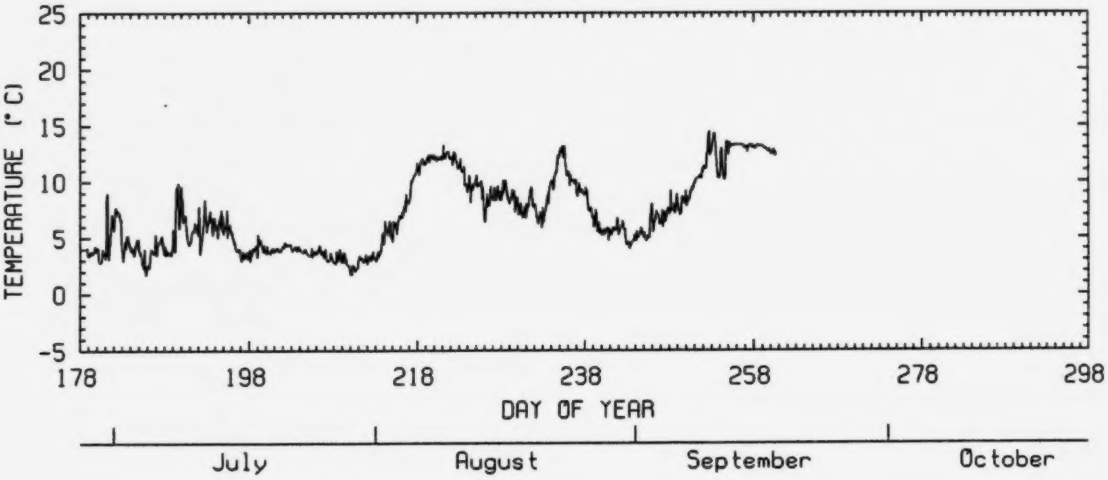
BELLEVUE



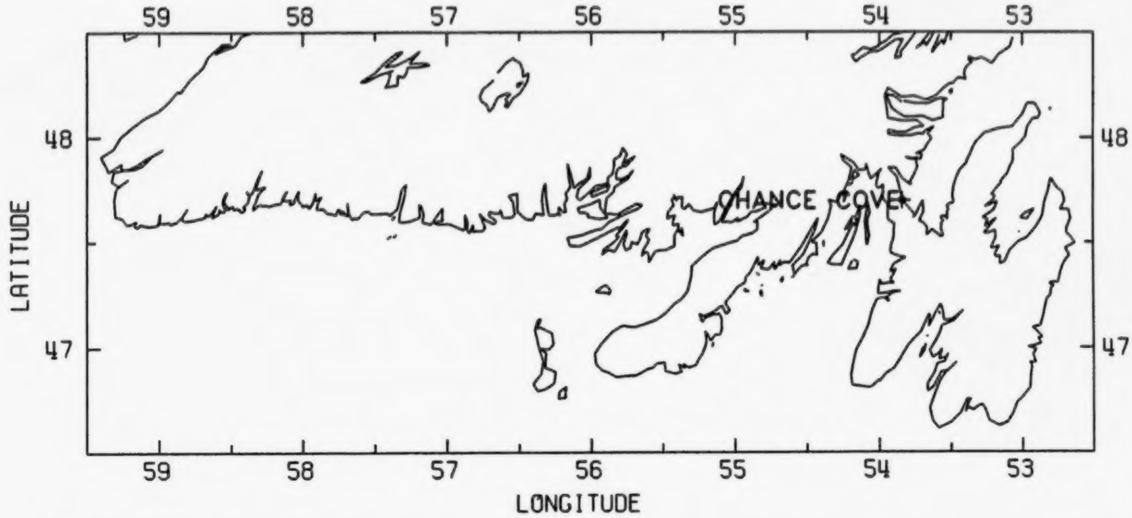
Start: 27-JUN-2003 End: 17-SEP-2003 Inst. S/N:9504

THERMOGRAPH DATA SUMMARY: CHANCE COVE (149) 2003

STATION NAME:	CHANCE COVE
STATION NUMBER:	149
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009502
LATITUDE:	47.70° N
LONGITUDE:	53.84° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-JUL-2003 17:00 GMT
RECOVERY DATE/TIME:	15-SEP-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	2.00	210	9.60	190	4.39	1.40	109.6	16.0	583
AUG-2003	4.10	213	14.50	234	10.35	2.70	320.7	196.7	744
SEP-2003	5.20	245	14.90	252	10.71	2.77	161.9	101.9	349
T.PERIOD	2.00	210	14.90	252	8.35	3.73	592.2	314.6	1676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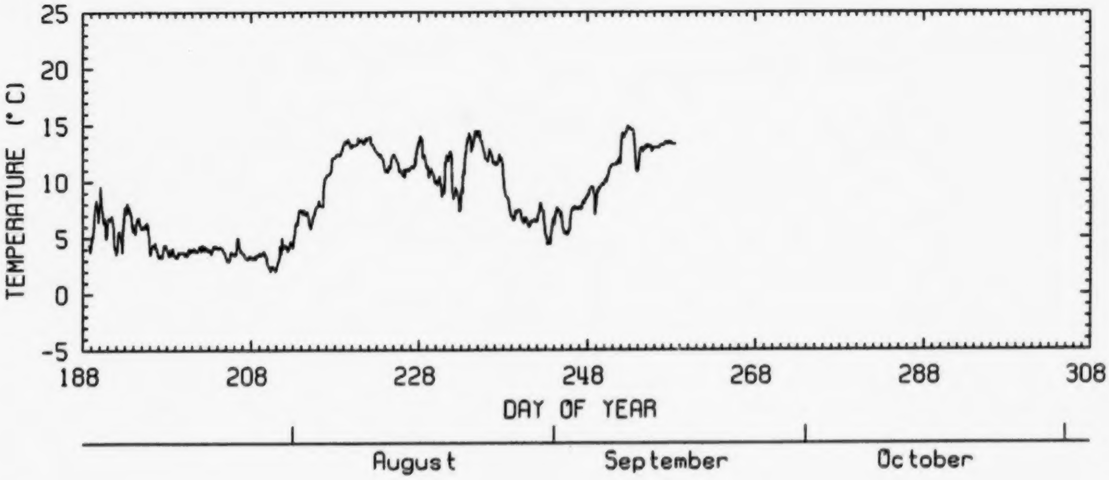
LATITUDE
CHANCE COVE
LONGITUDE



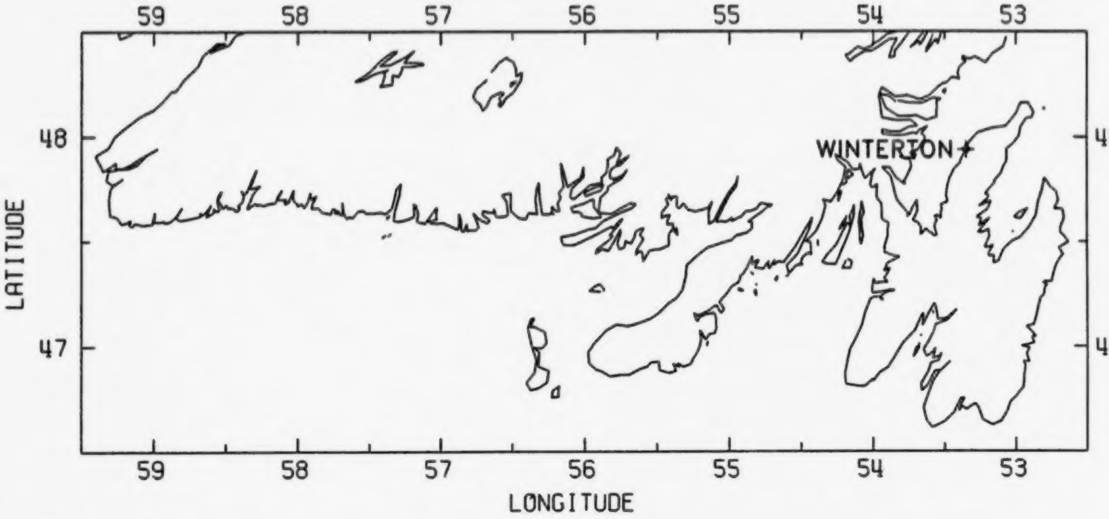
Start: 7-JUL-2003 End: 15-SEP-2003 Inst. S/N:9502

THERMOGRAPH DATA SUMMARY: WINTERTON (189) 2003

STATION NAME:	WINTERTON
STATION NUMBER:	189
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002187
LATITUDE:	47.94° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	16 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2003 13:00 GMT
RECOVERY DATE/TIME:	20-OCT-2003 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	2.10	145	5.40	147	4.03	0.91	39.8	3.7	227
JUN-2003	1.60	168	11.50	180	6.36	1.62	190.7	70.8	720
JUL-2003	4.30	182	16.30	207	11.68	2.29	362.1	238.1	744
AUG-2003	6.00	217	16.90	232	14.62	1.86	453.3	329.3	744
SEP-2003	11.00	252	15.60	260	13.57	0.86	407.2	287.2	720
OCT-2003	9.40	280	15.20	276	12.39	1.73	246.8	166.8	467
T.PERIOD	1.60	168	16.90	232	11.21	3.81	1699.9	1095.9	3622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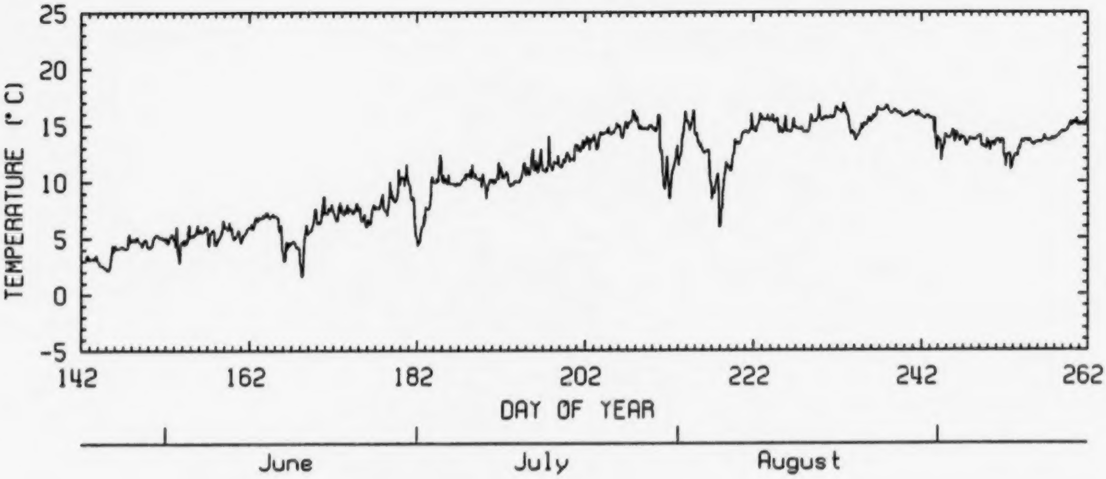
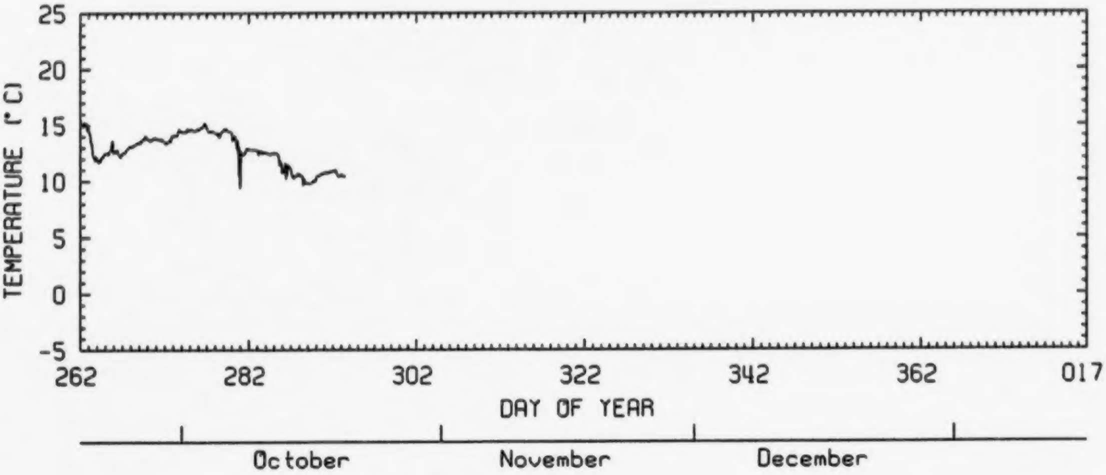
LATITUDE
LONGITUDE
WINTERTON





Start:22-MAY-2003 End:20-OCT-2003 Inst. S/N:2187

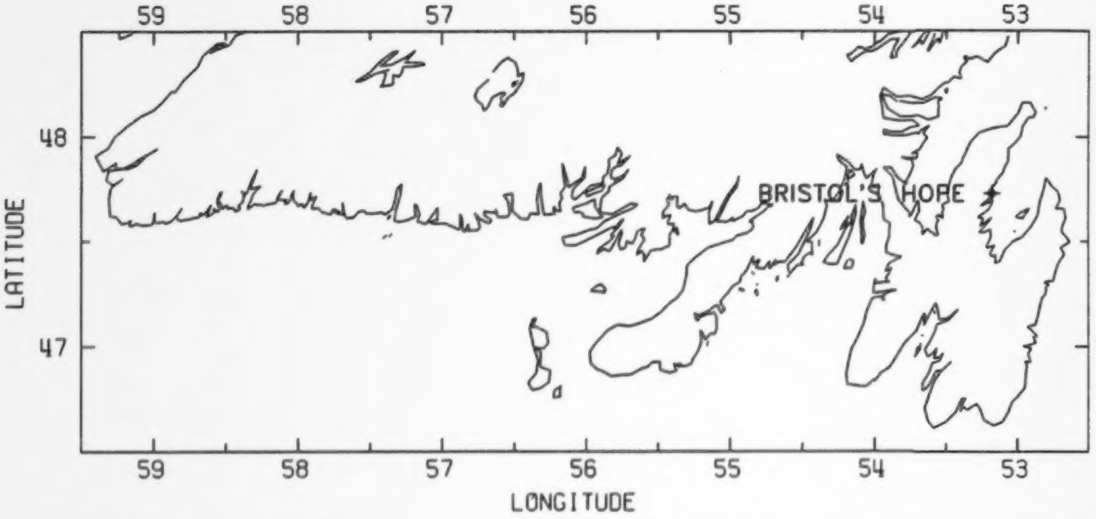
Appendix 9. Time Series Plots and Monthly Statistics from Unit Area 3Lf

THERMOGRAPH DATA SUMMARY: BRISTOL'S HOPE (101) 2003

STATION NAME:	BRISTOL'S HOPE
STATION NUMBER:	101
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004352
LATITUDE:	47.73° N
LONGITUDE:	53.18° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2003 11:00 GMT
RECOVERY DATE/TIME:	08-NOV-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	2.20	148	4.60	148	3.38	0.74	20.0	0.1	133
JUN-2003	-0.10	156	9.80	181	4.30	1.90	128.9	26.2	720
JUL-2003	2.10	192	11.50	212	8.56	1.44	265.5	141.5	744
AUG-2003	6.00	239	15.60	234	12.96	1.79	401.6	277.6	744
SEP-2003	3.40	254	15.00	252	12.37	1.52	371.1	251.1	720
OCT-2003	1.80	304	12.20	278	9.06	2.05	280.9	156.9	744
NOV-2003	0.90	305	8.40	306	6.79	1.43	54.6	22.9	181
T.PERIOD	-0.10	156	15.60	234	9.14	3.63	1522.5	876.3	3986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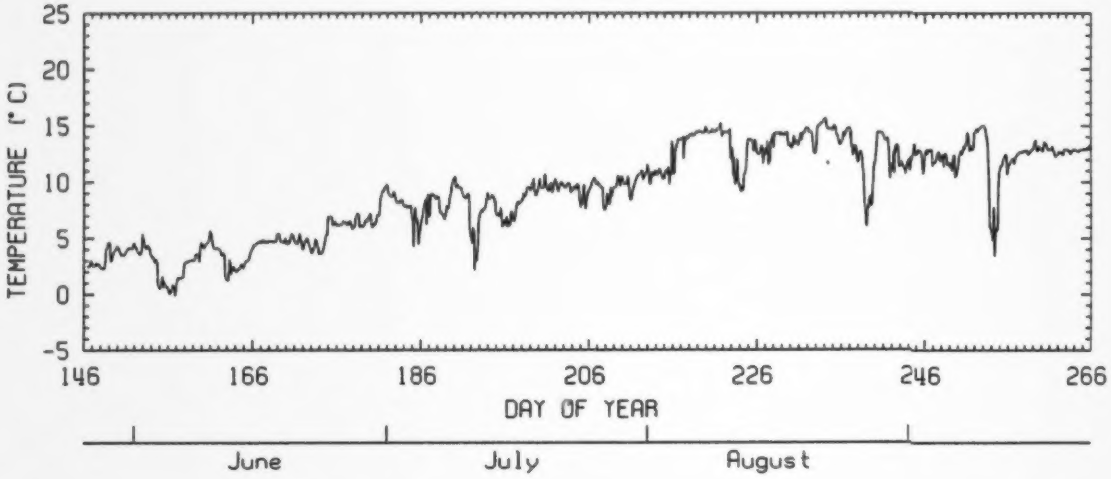
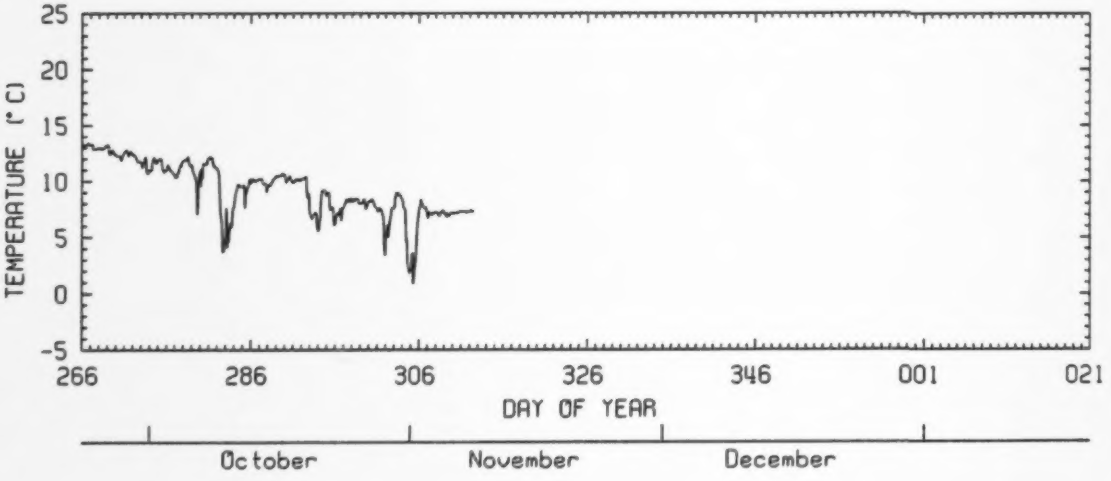
LATITUDE
LONGITUDE
BRISTOL'S HOPE





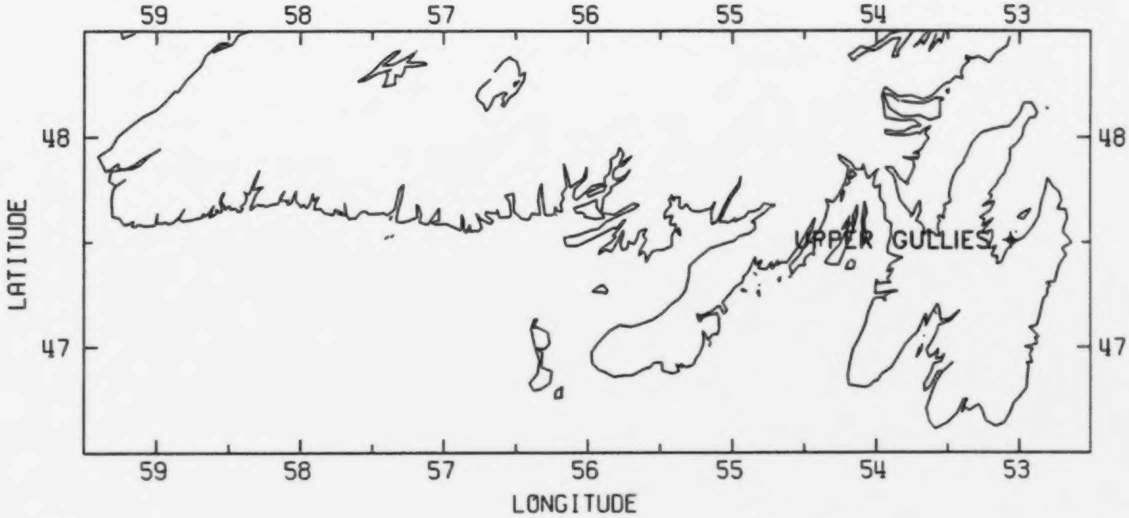
Start:26-MAY-2003 End: 8-NOV-2003 Inst. S/N:4352

THERMOGRAPH DATA SUMMARY: UPPER GULLIES (106) 2003

STATION NAME:	UPPER GULLIES
STATION NUMBER:	106
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002185
LATITUDE:	47.51° N
LONGITUDE:	53.06° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-MAY-2003 16:00 GMT
RECOVERY DATE/TIME:	13-NOV-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	2.30	147	5.50	148	3.49	0.90	25.1	0.9	152
JUN-2003	1.50	157	9.20	179	5.42	1.74	162.6	46.3	720
JUL-2003	5.00	193	16.20	206	10.45	1.75	324.0	200.0	744
AUG-2003	8.20	239	17.10	235	14.30	1.91	443.3	319.3	744
SEP-2003	10.20	249	15.70	245	14.01	1.00	420.4	300.4	720
OCT-2003	4.80	303	14.60	274	10.50	2.13	325.4	201.4	744
NOV-2003	5.80	305	8.90	306	7.14	0.69	92.5	40.5	300
T.PERIOD	1.50	157	17.10	235	10.40	3.83	1793.2	1108.8	4124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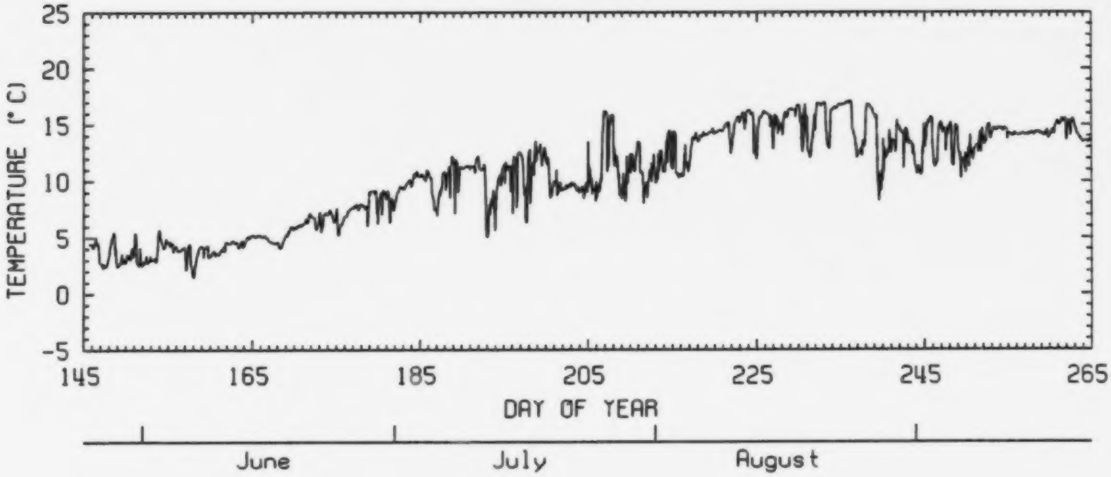
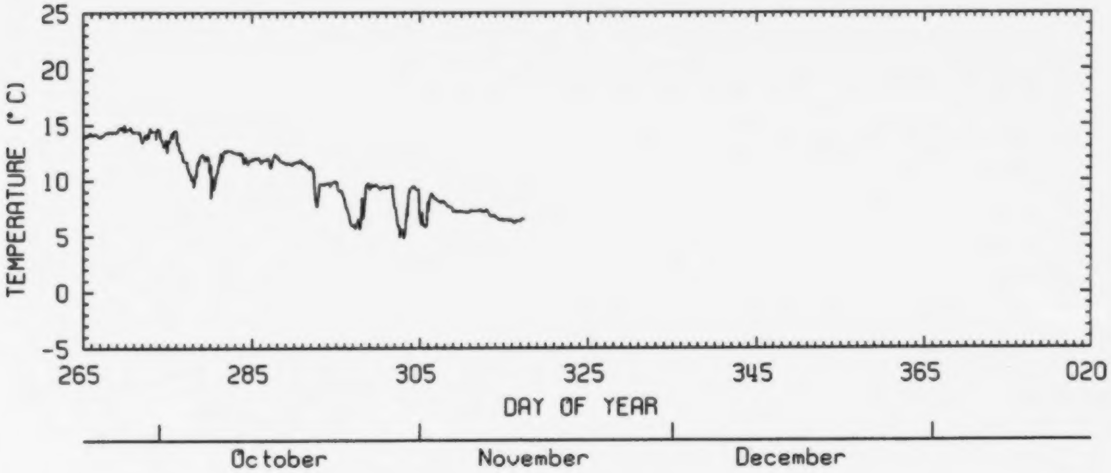
LATITUDE
LONGITUDE
UPPER GULLIES





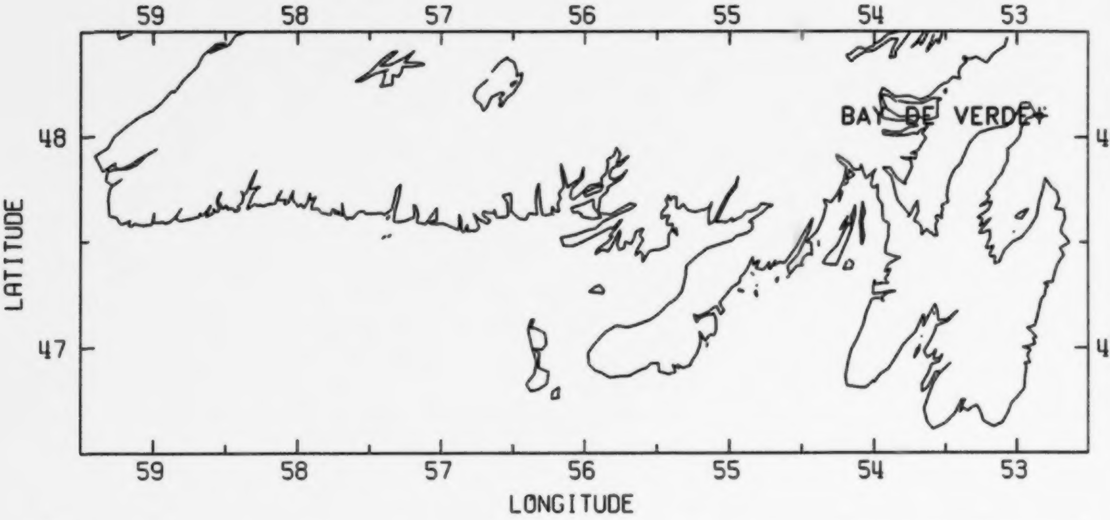
Start:25-MAY-2003 End:13-NOV-2003 Inst. S/N:2185

THERMOGRAPH DATA SUMMARY: BAY DE VERDE (217) 2003

STATION NAME:	BAY DE VERDE
STATION NUMBER:	217
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007928
LATITUDE:	48.10° N
LONGITUDE:	52.84° W
INSTRUMENT DEPTH:	29 m
WATER DEPTH:	33 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	15-JUL-2003 12:00 GMT
RECOVERY DATE/TIME:	08-SEP-2003 10:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	0.25	212	13.20	211	6.26	3.10	107.0	41.3	396
AUG-2003	0.40	213	14.65	239	5.42	3.13	168.0	58.2	744
SEP-2003	1.20	246	13.90	245	4.00	2.40	32.6	3.9	179
T.PERIOD	0.25	212	14.65	239	5.48	3.11	307.6	103.4	1319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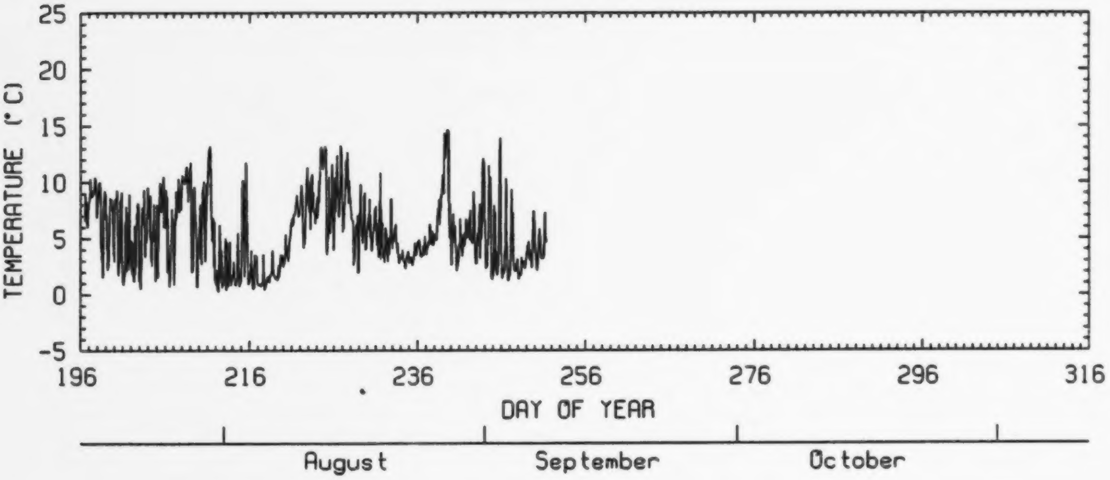


Start: 15-JUL-2003 End: 8-SEP-2003 Inst. S/N:7928

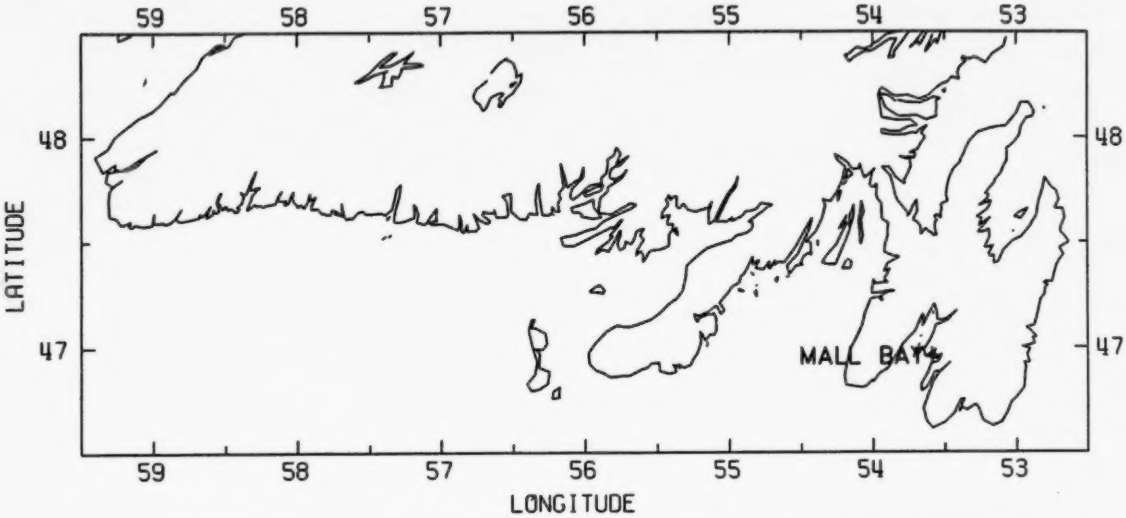
Appendix 10. Time Series Plots and Monthly Statistics from Unit Area 3Lq

THERMOGRAPH DATA SUMMARY: MALL BAY (221) 2003

STATION NAME:	MALL BAY
STATION NUMBER:	221
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008957
LATITUDE:	46.96° N
LONGITUDE:	53.59° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-MAY-2003 12:00 GMT
RECOVERY DATE/TIME:	01-NOV-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-0.70	132	4.80	149	2.01	1.17	62.1	0.6	732
JUN-2003	0.85	167	9.05	178	5.70	1.62	171.0	55.3	720
JUL-2003	4.70	182	15.85	209	9.69	2.34	300.4	176.4	744
AUG-2003	4.40	217	17.50	236	13.10	4.30	406.0	282.0	744
SEP-2003	6.75	253	16.75	245	12.00	2.56	360.1	240.1	720
OCT-2003	6.45	290	15.25	279	12.12	1.99	375.7	251.7	744
NOV-2003	10.80	305	10.90	305	10.86	0.04	10.9	6.9	12
T.PERIOD	-0.70	132	17.50	236	9.13	4.72	1686.1	1012.9	4416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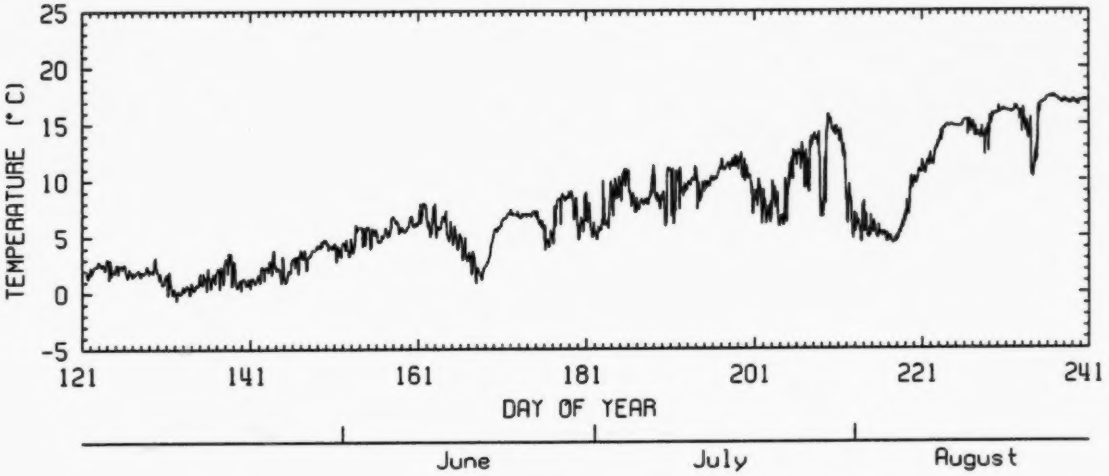
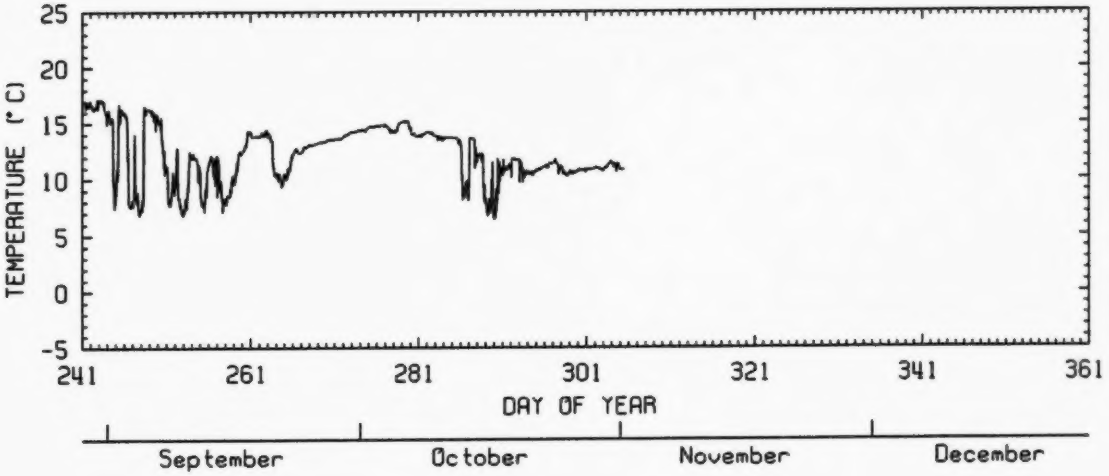
LATITUDE
LONGITUDE
MALL BAY





Start: 1-MAY-2003 End: 1-NOV-2003 Inst. S/N:8957

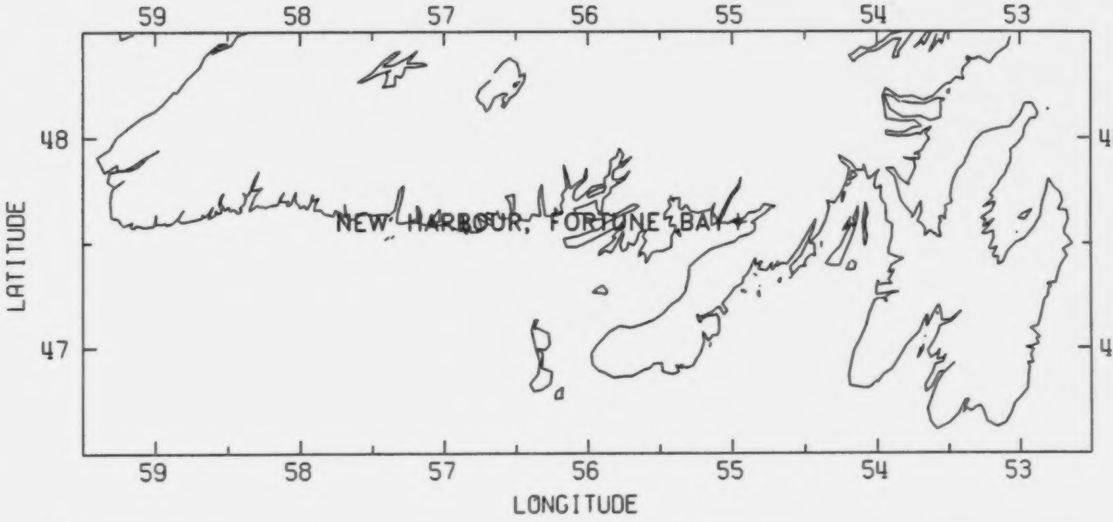
Appendix 11. Time Series Plots and Monthly Statistics from Unit Area 3PSb

THERMOGRAPH DATA SUMMARY: NEW HARBOUR, FORTUNE BAY (255) 2003

STATION NAME:	NEW HARBOUR, FORTUNE BAY
STATION NUMBER:	255
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007934
LATITUDE:	47.60° N
LONGITUDE:	54.96° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-APR-2003 19:00 GMT
RECOVERY DATE/TIME:	19-NOV-2003 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2003	0.20	116	3.25	120	1.67	0.72	14.8	0.0	197
MAY-2003	-0.20	130	6.10	148	3.07	1.63	95.2	7.3	744
JUN-2003	2.70	168	11.55	181	7.76	1.76	232.8	113.7	720
JUL-2003	10.45	182	16.60	212	13.45	1.61	416.8	292.8	744
AUG-2003	15.15	217	18.85	237	17.51	0.81	542.9	418.9	744
SEP-2003	10.55	267	18.00	245	16.37	1.28	491.2	371.2	720
OCT-2003	11.55	300	15.00	274	13.41	0.92	415.6	291.6	744
NOV-2003	6.95	322	12.05	305	8.97	1.44	170.2	94.2	451
T.PERIOD	-0.20	130	18.85	237	11.26	5.32	2379.5	1589.7	5064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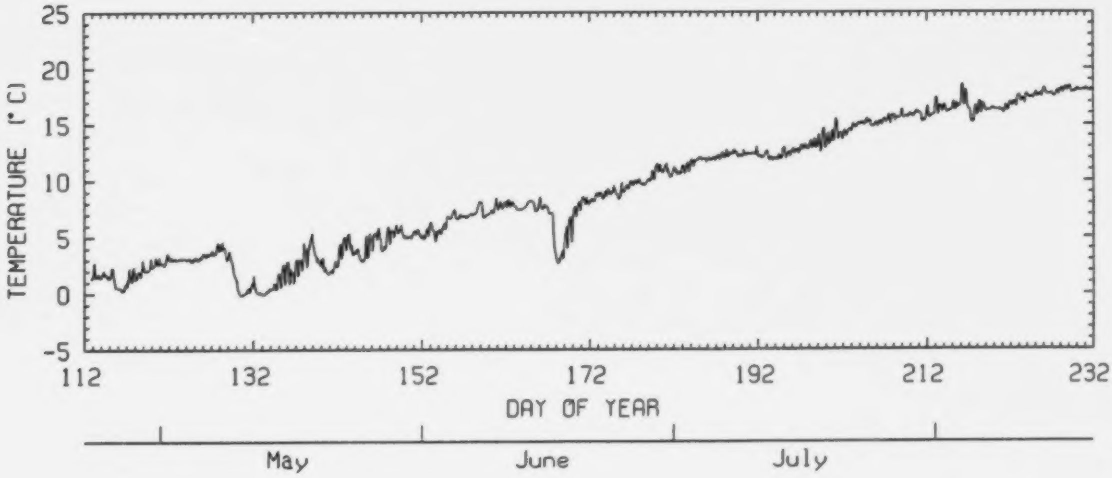
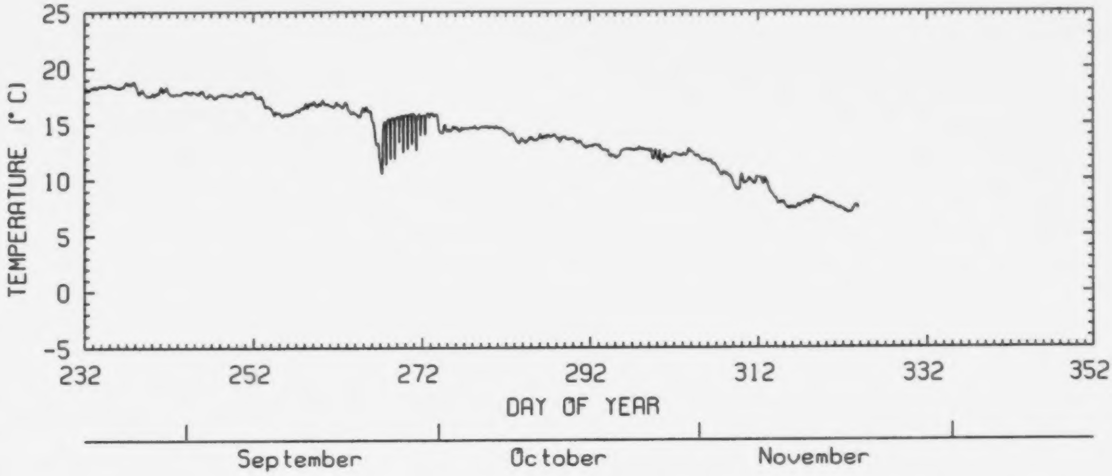
LATITUDE
NEW HARBOUR, FORTUNE BAY +
LONGITUDE





Start:22-APR-2003 End:19-NOV-2003 Inst. S/N:7934

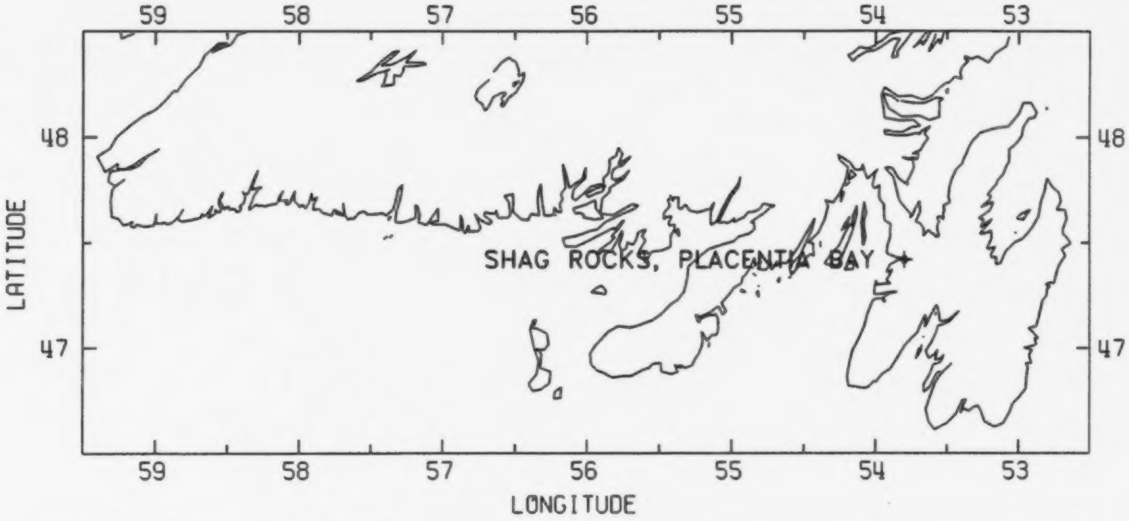
Appendix 12. Time Series Plots and Monthly Statistics from Unit Area 3PSc

THERMOGRAPH DATA SUMMARY: SHAG ROCKS, PLACENTIA BAY (111) 2003

STATION NAME:	SHAG ROCKS, PLACENTIA BAY
STATION NUMBER:	111
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006642
LATITUDE:	47.42° N
LONGITUDE:	53.80° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-OCT-2002 23:00 GMT
RECOVERY DATE/TIME:	17-MAR-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
OCT-2002	5.80	299	10.10	286	8.85	0.96	169.4	93.4	433
NOV-2002	1.10	311	7.40	305	5.19	1.11	155.8	38.6	720
DEC-2002	1.40	363	4.10	335	2.61	0.73	80.8	0.0	744
JAN-2003	-0.90	24	1.70	1	0.29	0.78	15.2	0.0	744
FEB-2003	-1.80	47	0.70	34	-0.81	0.73	1.4	0.0	672
MAR-2003	-1.80	66	-1.40	61	-1.62	0.11	0.0	0.0	396
T.PERIOD	-1.80	47	10.10	286	2.30	3.40	422.7	132.1	3709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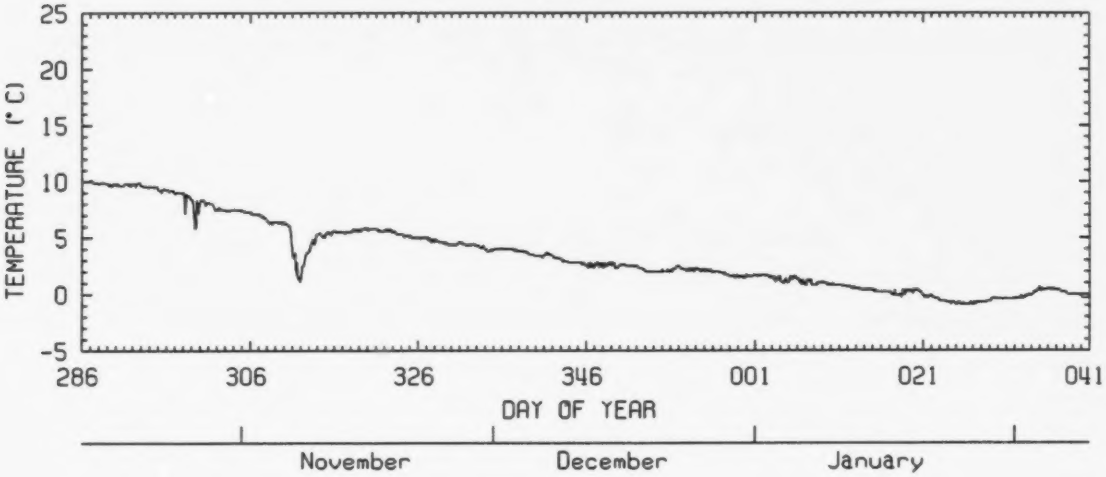
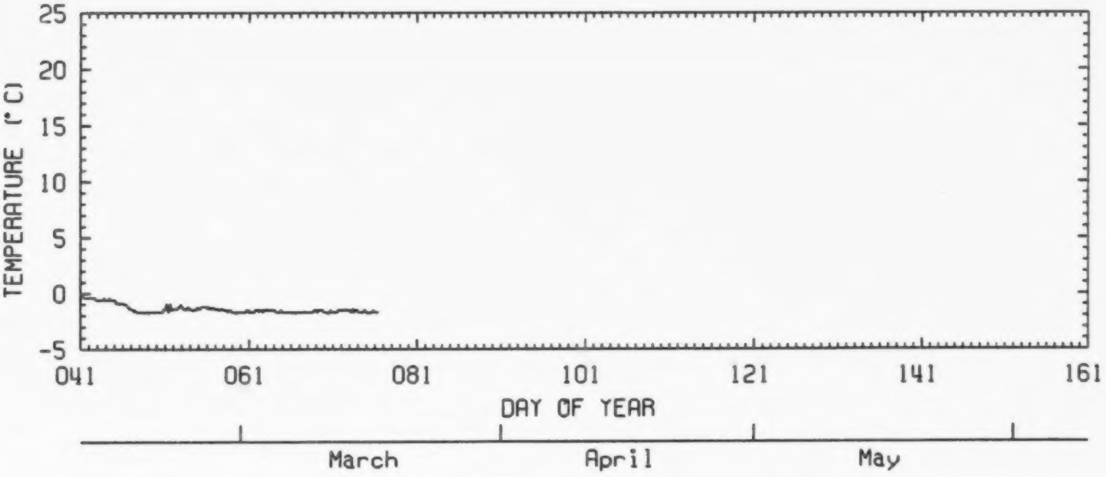
LATITUDE
SHAG ROCKS, PLACENTIA BAY
LONGITUDE





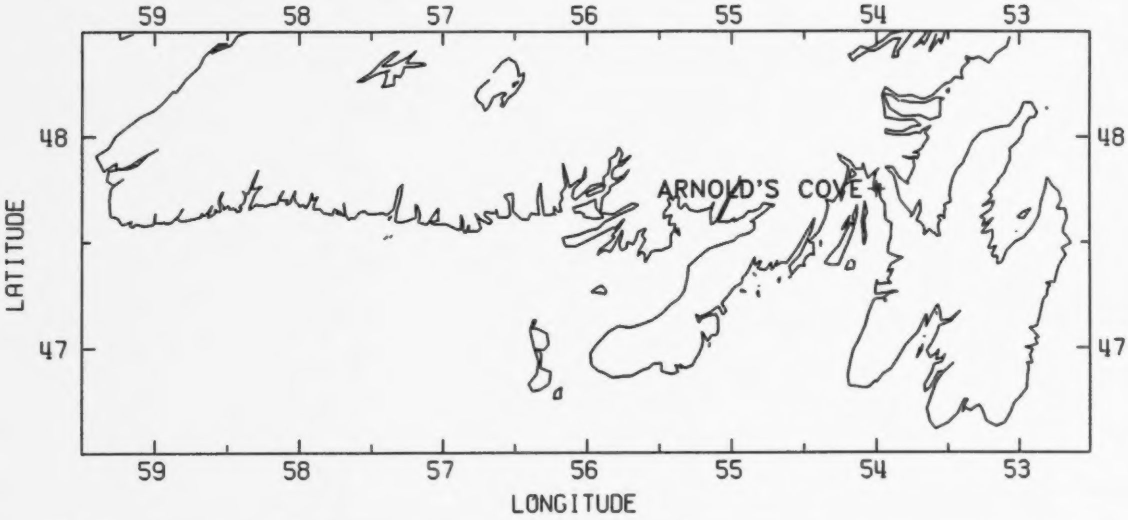
Start:13-OCT-2002 End:17-MAR-2003 Inst. S/N:6642

THERMOGRAPH DATA SUMMARY: ARNOLD'S COVE (127) 2003

STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008975
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-DEC-2002 15:00 GMT
RECOVERY DATE/TIME:	05-MAY-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
DEC-2002	0.60	364	3.95	342	2.28	0.65	60.1	0.0	609
JAN-2003	-1.00	24	1.60	1	0.34	0.58	13.7	0.0	744
FEB-2003	-1.90	59	0.40	35	-0.82	0.72	0.9	0.0	672
MAR-2003	-1.90	66	0.00	90	-1.11	0.45	0.0	0.0	744
APR-2003	-1.30	104	3.95	120	0.14	1.22	15.3	0.0	720
MAY-2003	0.10	122	4.20	121	2.03	1.00	10.4	0.0	113
T.PERIOD	-1.90	59	4.20	121	0.17	1.41	100.4	0.0	3602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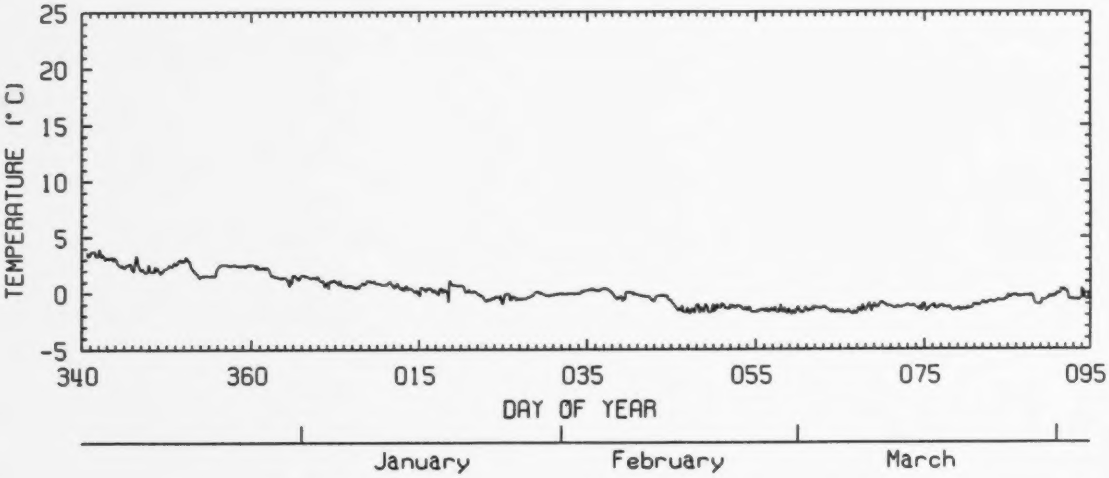
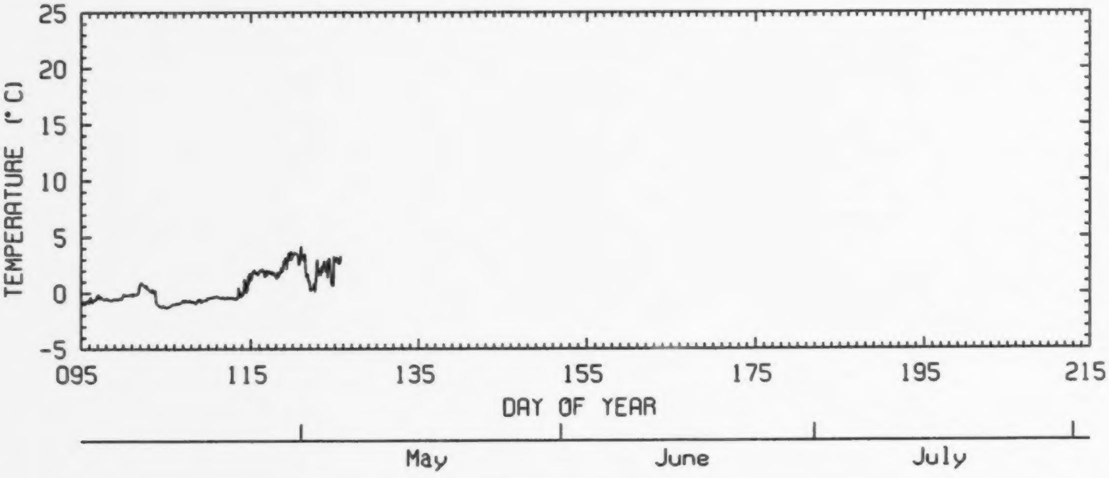
LATITUDE
ARNOLD'S COVE
LONGITUDE





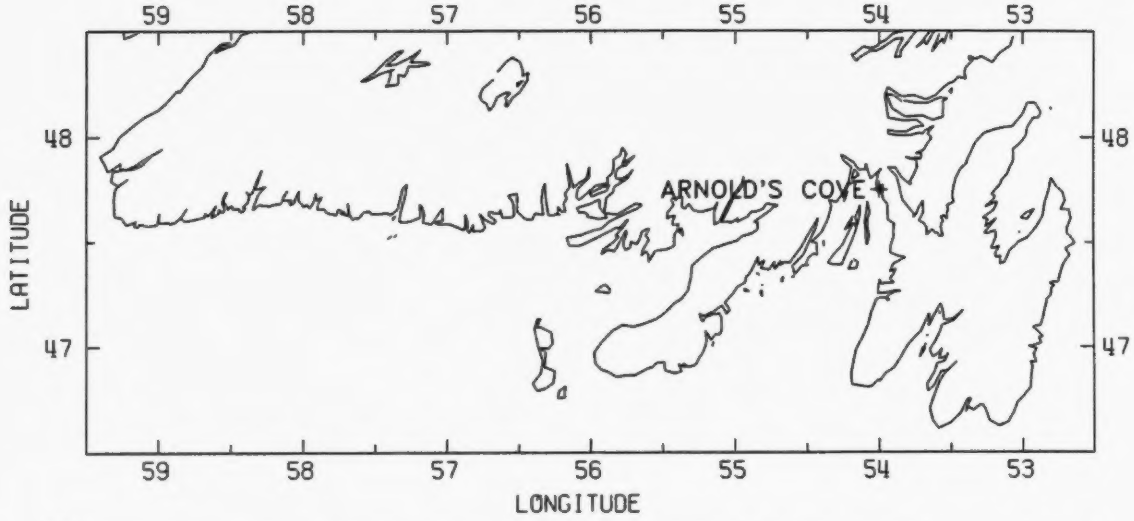
Start: 6-DEC-2002 End: 5-MAY-2003 Inst. S/N:8975

THERMOGRAPH DATA SUMMARY: ARNOLD'S COVE (127) 2003

STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003827
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-MAY-2003 18:00 GMT
RECOVERY DATE/TIME:	19-NOV-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-0.10	132	5.40	147	2.91	1.54	79.2	6.2	630
JUN-2003	2.90	167	9.80	180	6.58	1.56	197.3	77.7	720
JUL-2003	8.70	182	15.20	210	12.14	1.65	376.3	252.3	744
AUG-2003	13.50	222	17.90	229	16.59	1.20	514.4	390.4	744
SEP-2003	7.20	263	17.30	244	14.96	2.38	448.8	328.8	720
OCT-2003	11.30	300	14.40	274	13.15	0.87	407.7	283.7	744
NOV-2003	1.80	309	12.20	305	7.50	2.52	142.2	67.8	449
T.PERIOD	-0.10	132	17.90	229	10.92	4.89	2165.8	1406.7	4751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LATITUDE
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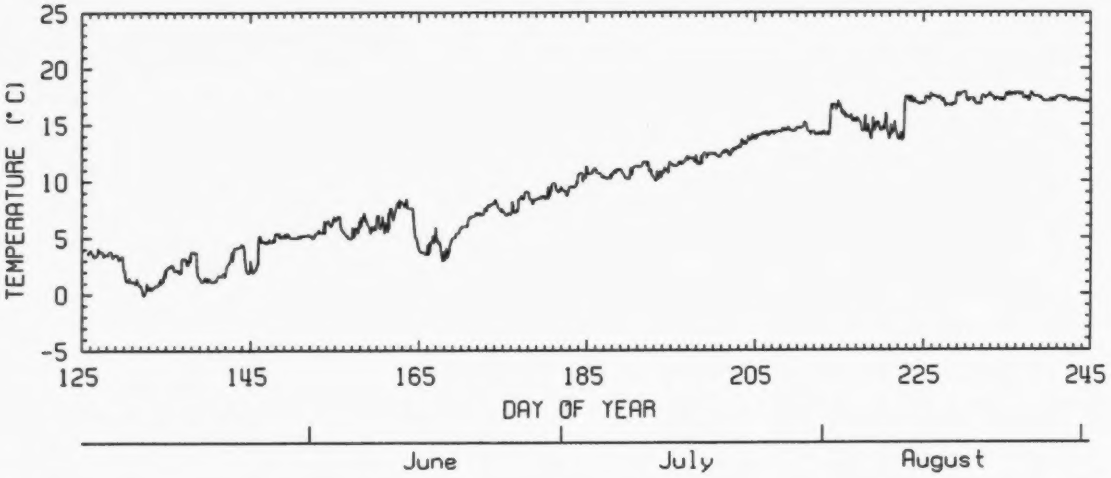
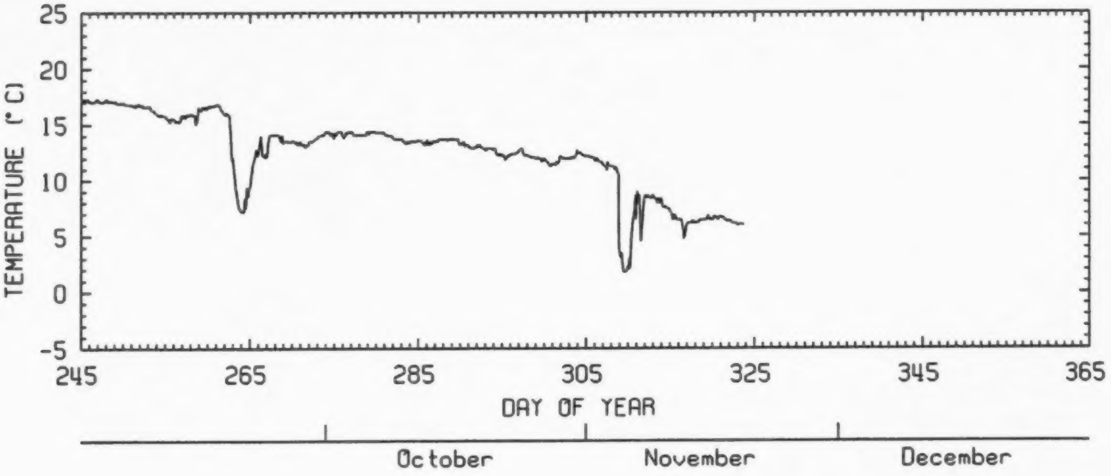
ARNOLD'S COVE





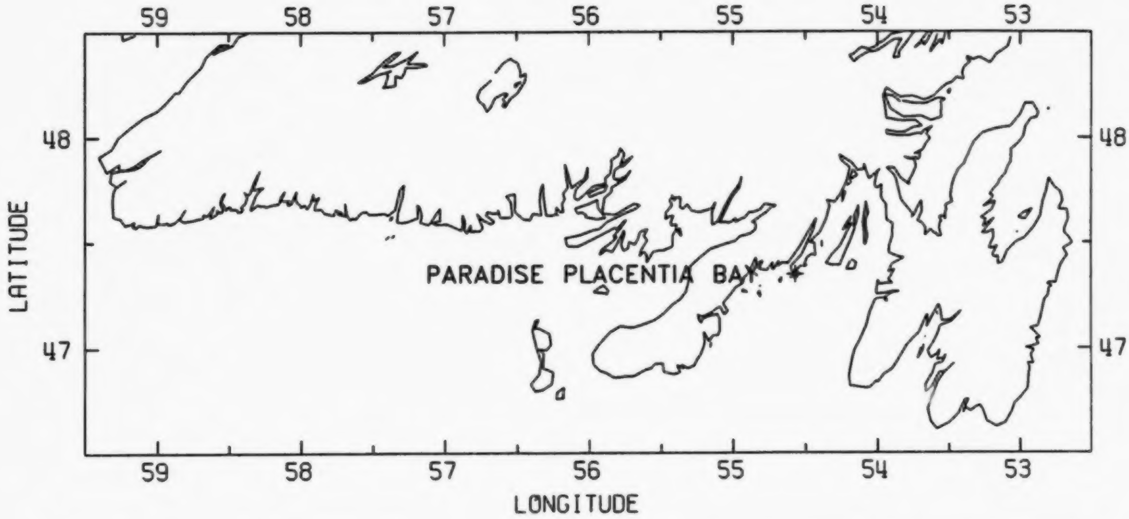
Start: 5-MAY-2003 End: 19-NOV-2003 Inst. S/N: 3827

THERMOGRAPH DATA SUMMARY: PARADISE PLACENTIA BAY (270) 2003

STATION NAME:	PARADISE PLACENTIA BAY
STATION NUMBER:	270
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003267
LATITUDE:	47.35° N
LONGITUDE:	54.57° W
INSTRUMENT DEPTH:	48 m
WATER DEPTH:	49 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-JUL-2003 16:00 GMT
RECOVERY DATE/TIME:	15-OCT-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	1.90	210	5.50	211	3.41	0.68	34.7	0.3	224
AUG-2003	1.30	214	6.40	239	3.46	0.95	107.3	3.3	744
SEP-2003	1.40	253	10.90	272	4.22	1.98	126.6	23.8	720
OCT-2003	1.70	285	12.80	278	7.05	3.85	104.2	51.2	352
T.PERIOD	1.30	214	12.80	278	4.34	2.44	372.9	78.6	2040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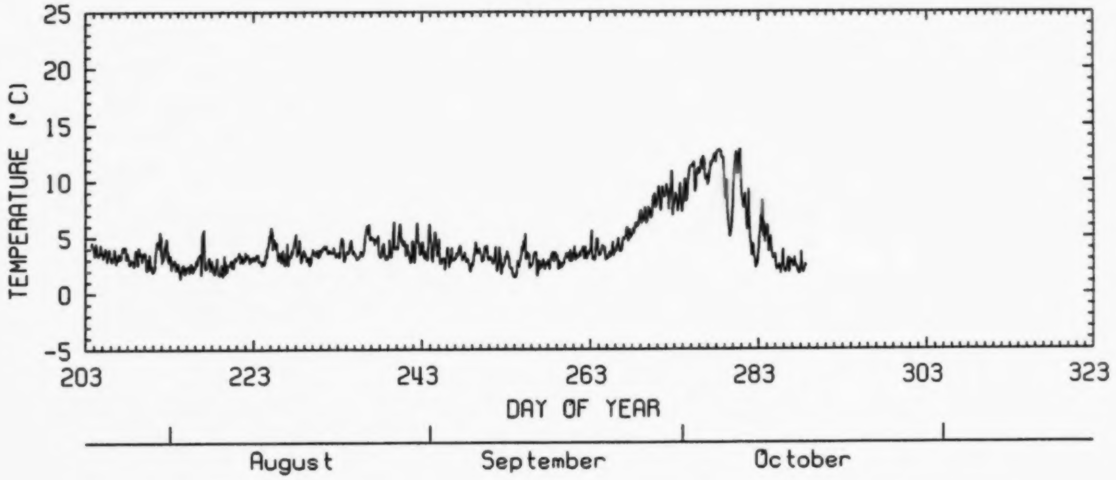
LATITUDE
LONGITUDE
PARADISE PLACENTIA BAY



Start: 22-JUL-2003 End: 15-OCT-2003 Inst. S/N:3267

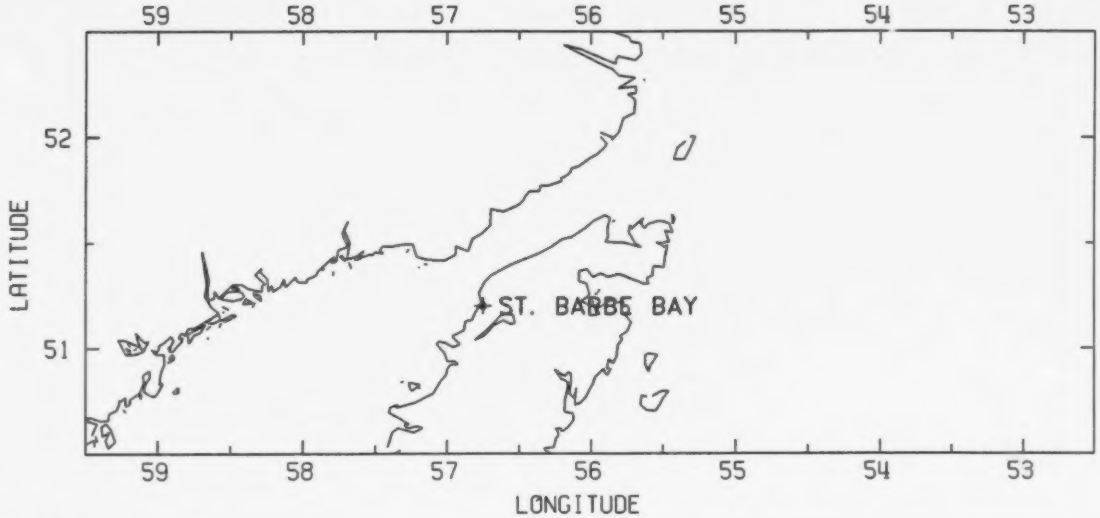
Appendix 13. Time Series Plots and Monthly Statistics from Unit Area 4Ra

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2003

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007937
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-MAY-2003 17:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	1.50	151	3.10	149	2.09	0.40	6.7	0.0	55
JUN-2003	0.55	154	11.85	180	5.83	2.51	174.9	66.9	720
JUL-2003	7.85	187	15.55	196	12.25	2.02	379.8	255.8	744
AUG-2003	9.85	230	17.60	224	15.32	1.17	474.9	350.9	744
SEP-2003	12.50	254	16.10	244	14.83	0.71	252.1	184.1	400
T.PERIOD	0.55	154	17.60	224	11.55	4.44	1288.3	857.6	2663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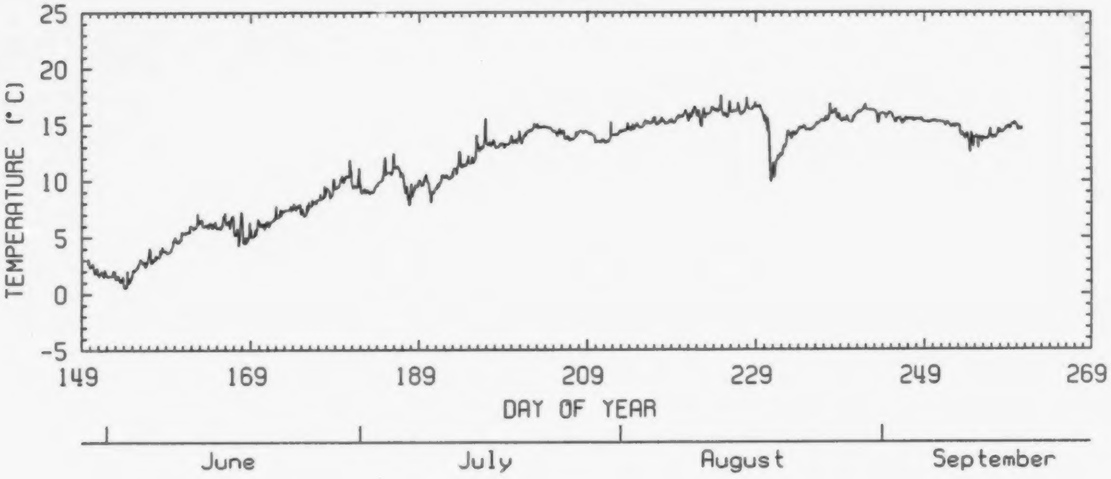
LATITUDE
ST. BARBE BAY
LONGITUDE



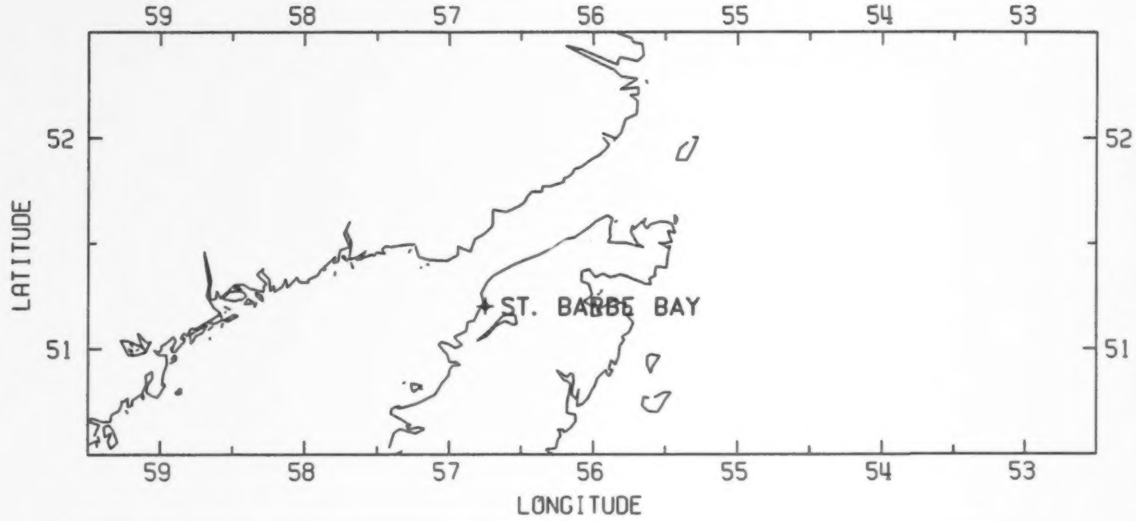
Start: 29-MAY-2003 End: 17-SEP-2003 Inst. S/N:7937

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2003

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008973
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-MAY-2003 14:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	1.75	151	8.90	151	3.83	2.22	7.9	0.2	34
JUN-2003	0.45	154	19.90	181	7.46	3.15	223.9	108.8	720
JUL-2003	8.80	183	20.65	201	13.25	2.42	410.8	286.8	744
AUG-2003	11.45	231	23.60	221	16.10	1.56	499.0	375.0	744
SEP-2003	10.20	254	16.75	260	14.75	1.15	251.3	183.3	399
T.PERIOD	0.45	154	23.60	221	12.58	4.21	1393.0	954.2	2641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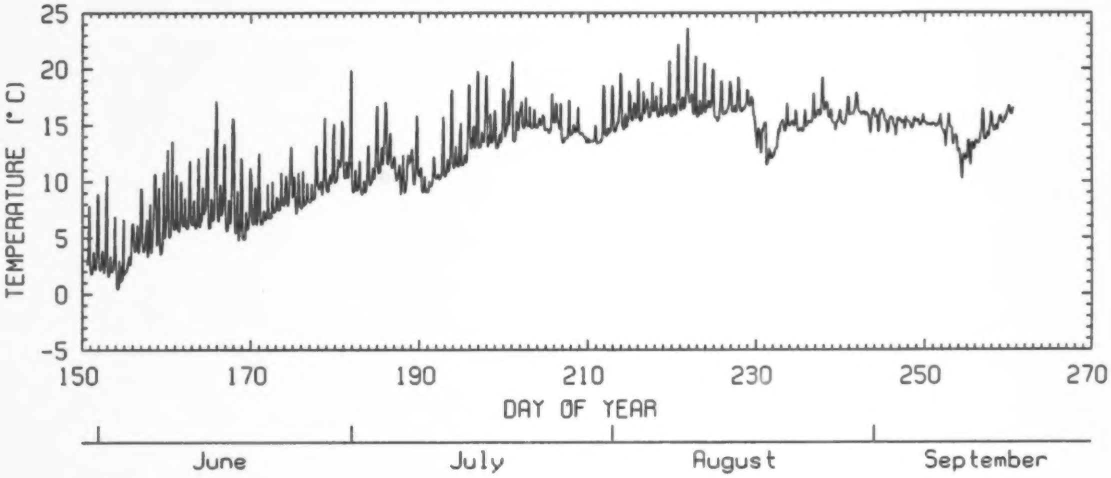
LATITUDE
LONGITUDE
ST. BARBE BAY



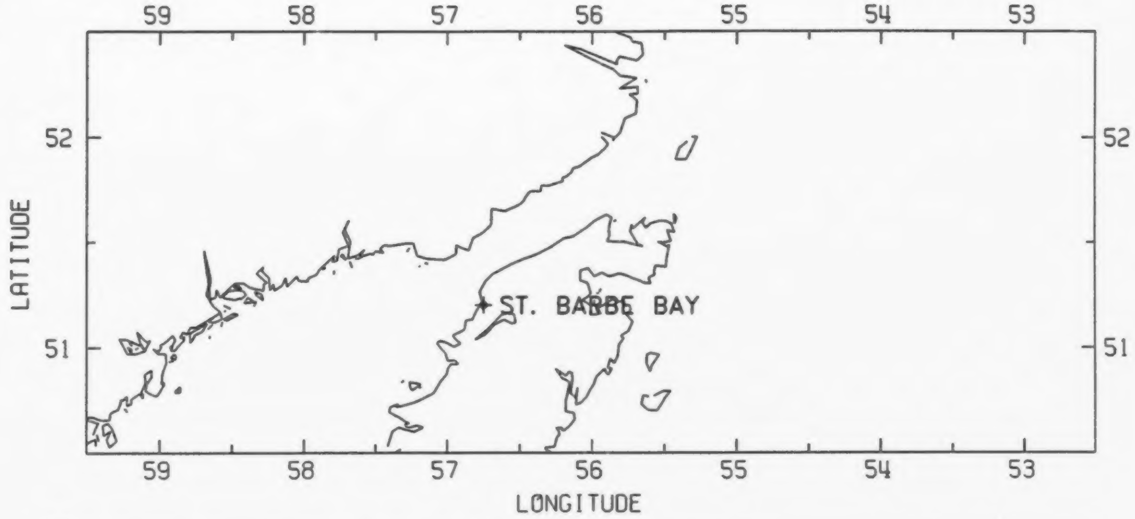
Start: 30-MAY-2003 End: 17-SEP-2003 Inst. S/N:8973

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2003

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006741
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	5 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-MAY-2003 16:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	1.50	151	3.35	149	2.34	0.49	7.5	0.0	56
JUN-2003	0.40	154	12.50	180	5.99	2.53	179.6	70.0	720
JUL-2003	8.00	187	16.55	200	12.29	2.00	381.1	257.1	744
AUG-2003	10.40	231	18.75	226	15.37	1.12	476.6	352.6	744
SEP-2003	12.05	254	16.35	260	14.70	0.82	250.1	182.1	401
T.PERIOD	0.40	154	18.75	226	11.60	4.38	1295.0	861.8	2665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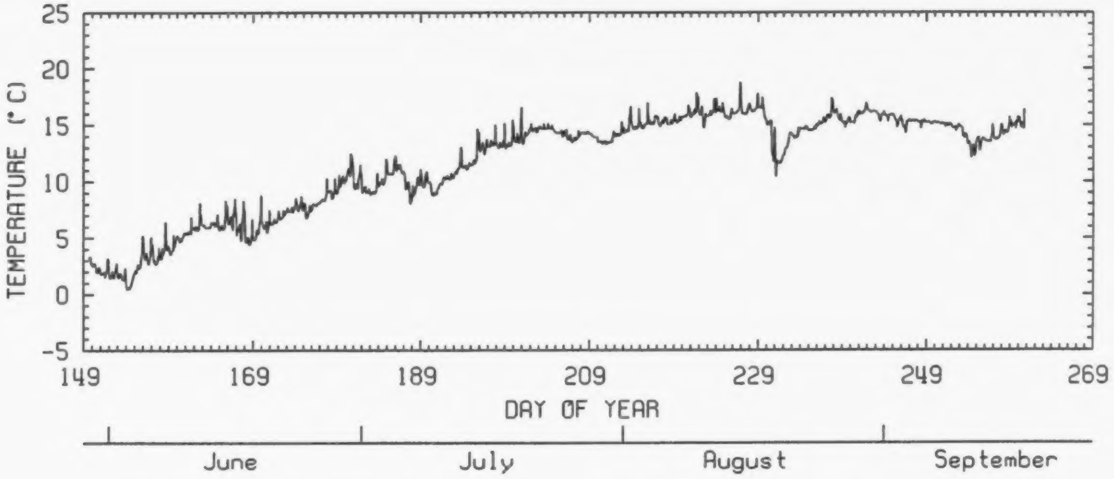
LATITUDE
ST. BARBE BAY
LONGITUDE



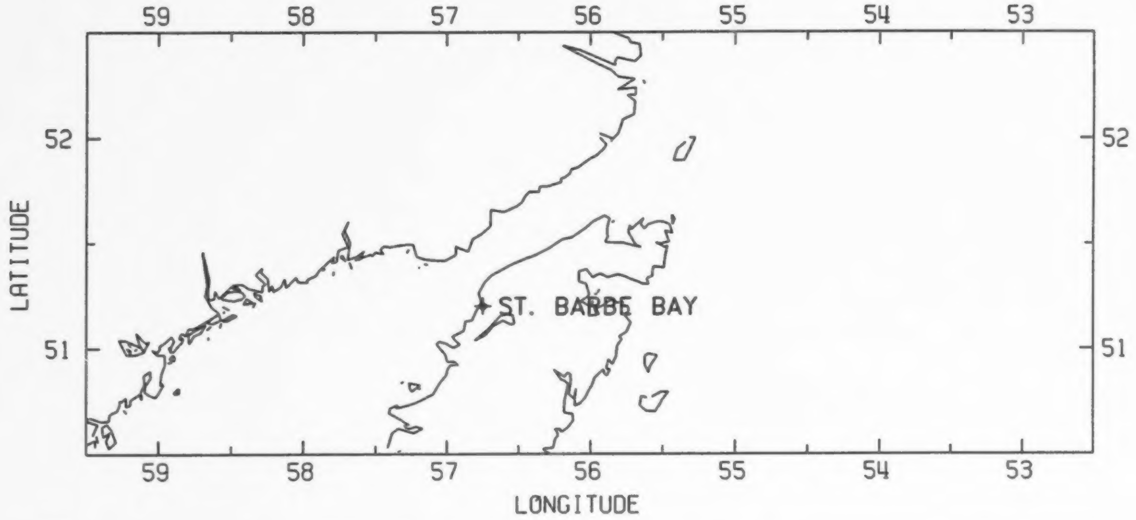
Start: 29-MAY-2003 End: 17-SEP-2003 Inst. S/N:6741

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2003

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007945
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	5 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-MAY-2003 14:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	1.85	151	8.85	151	4.48	2.43	9.4	1.4	34
JUN-2003	0.50	154	20.15	181	7.61	3.18	228.2	112.1	720
JUL-2003	8.85	183	20.00	196	13.23	2.34	410.2	286.2	744
AUG-2003	11.70	231	22.85	221	16.01	1.47	496.4	372.4	744
SEP-2003	9.95	254	17.05	260	14.70	1.16	250.4	182.4	399
T.PERIOD	0.50	154	22.85	221	12.59	4.11	1394.5	954.5	2641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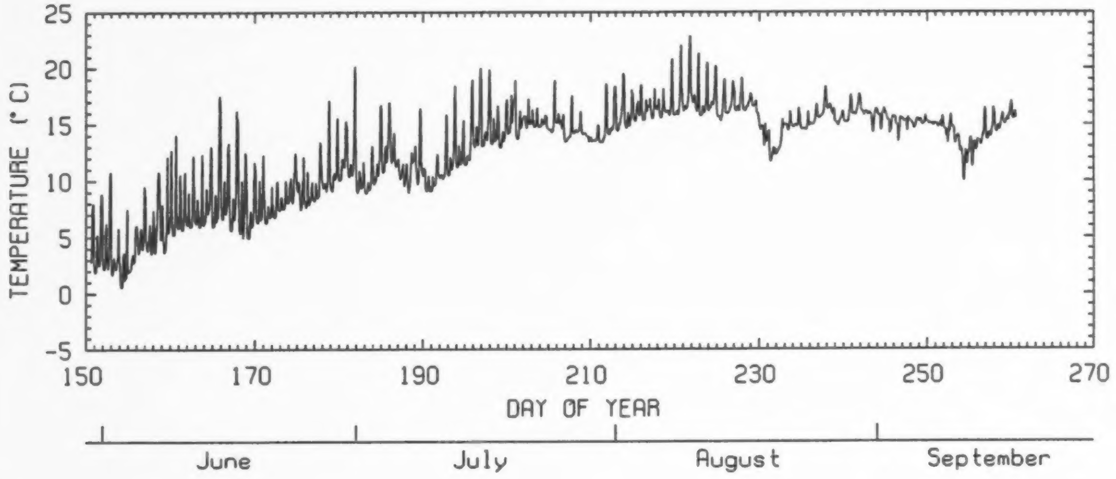
LATITUDE
LONGITUDE
ST. BARBE BAY



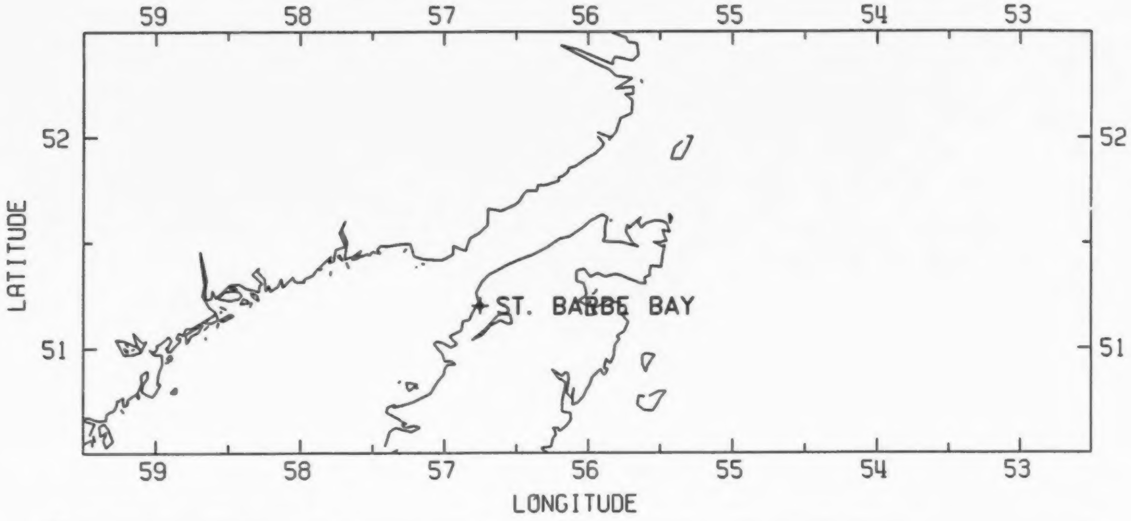
Start: 30-MAY-2003 End: 17-SEP-2003 Inst. S/N:7945

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2003

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007821
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	7 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-MAY-2003 17:00 GMT
RECOVERY DATE/TIME:	17-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	1.40	151	2.00	150	1.60	0.15	3.3	0.0	31
JUN-2003	0.40	154	10.60	180	5.52	2.48	165.6	59.7	720
JUL-2003	7.50	187	14.80	202	11.94	2.03	370.3	246.3	744
AUG-2003	7.00	230	16.45	228	15.00	1.33	464.9	340.9	744
SEP-2003	13.45	256	16.00	244	14.76	0.68	250.8	182.8	400
T.PERIOD	0.40	154	16.45	228	11.36	4.40	1254.9	829.6	2639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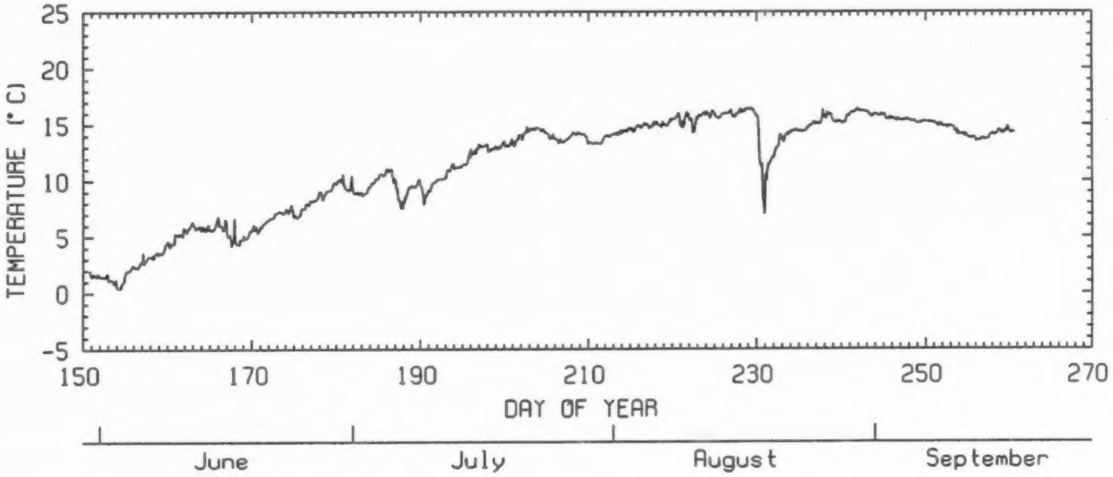
LATITUDE
LONGITUDE
+ST. BARBE BAY



Start: 30-MAY-2003 End: 17-SEP-2003 Inst. S/N:7821

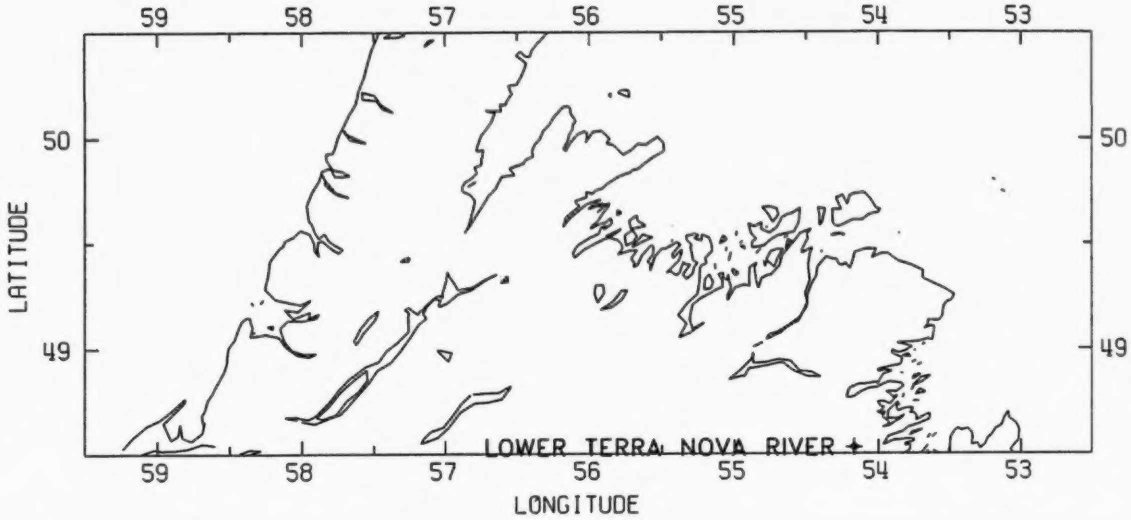
Appendix 14. Time Series Plots and Monthly Statistics from Freshwater Sites around Newfoundland and Labrador

THERMOGRAPH DATA SUMMARY: LOWER TERRA NOVA RIVER (115) 2003

STATION NAME:	LOWER TERRA NOVA RIVER
STATION NUMBER:	115
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003263
LATITUDE:	48.53° N
LONGITUDE:	54.17° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	11-JUN-2003 16:00 GMT
RECOVERY DATE/TIME:	12-SEP-2003 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	10.00	165	22.75	180	15.85	3.36	315.6	235.6	464
JUL-2003	14.75	191	25.95	200	20.05	2.74	621.6	497.6	744
AUG-2003	16.20	239	23.75	215	19.90	1.54	616.9	492.9	744
SEP-2003	11.75	255	19.10	244	16.27	1.74	193.5	145.5	278
T.PERIOD	10.00	165	25.95	200	18.66	3.09	1747.6	1371.6	2230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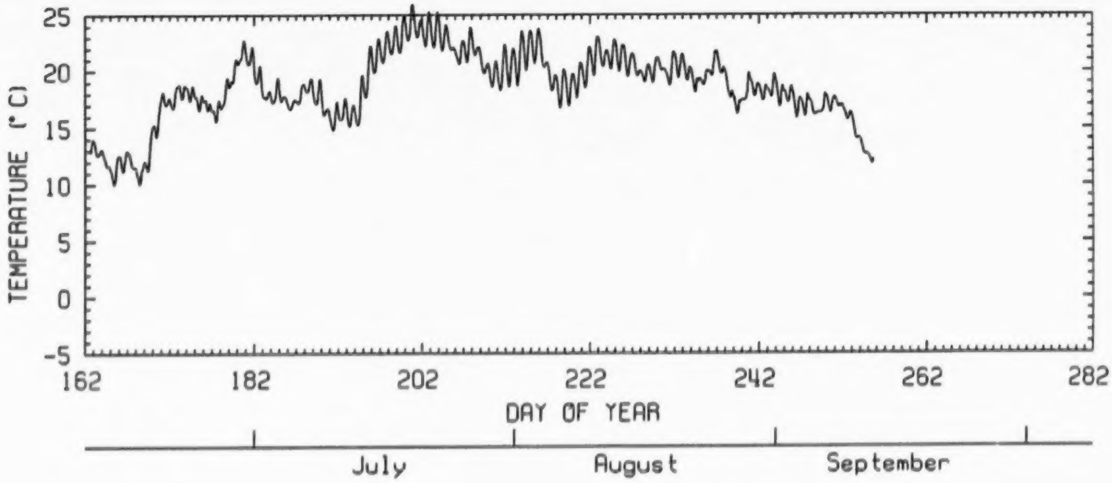
LATITUDE
LONGITUDE
LOWER TERRA NOVA RIVER



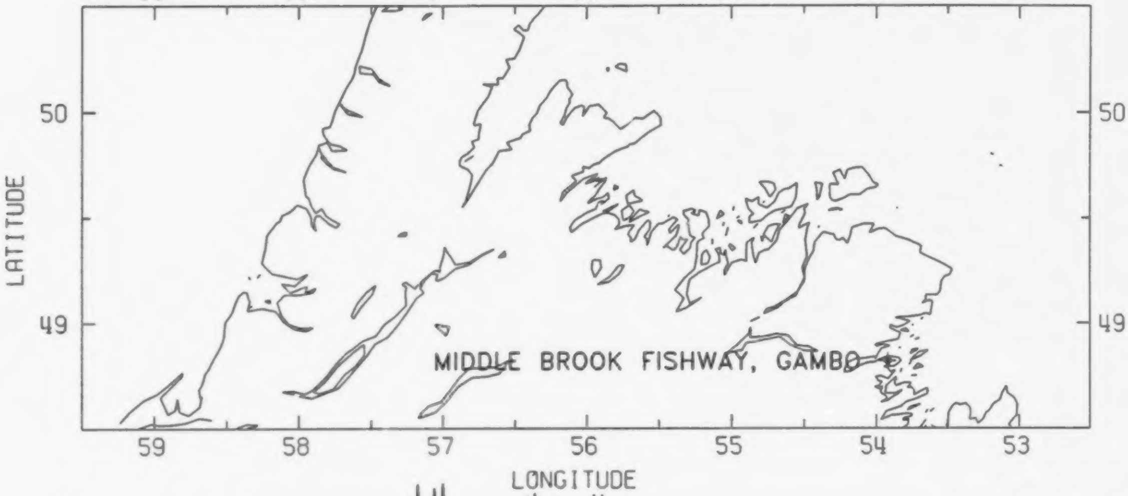
Start: 11-JUN-2003 End: 12-SEP-2003 Inst. S/N:3263

THERMOGRAPH DATA SUMMARY: MIDDLE BROOK FISHWAY, GAMBO (124) 2003

STATION NAME:	MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER:	124
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008961
LATITUDE:	48.82° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	10-JUN-2003 12:00 GMT
RECOVERY DATE/TIME:	11-SEP-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	9.50	165	25.95	180	15.54	3.72	324.0	240.0	492
JUL-2003	11.70	190	27.70	203	20.22	3.16	627.0	503.0	744
AUG-2003	14.45	218	26.75	214	20.08	2.67	622.5	498.5	744
SEP-2003	10.45	254	22.10	244	16.27	2.53	176.8	132.8	253
T.PERIOD	9.50	165	27.70	203	18.70	3.71	1750.3	1374.3	2233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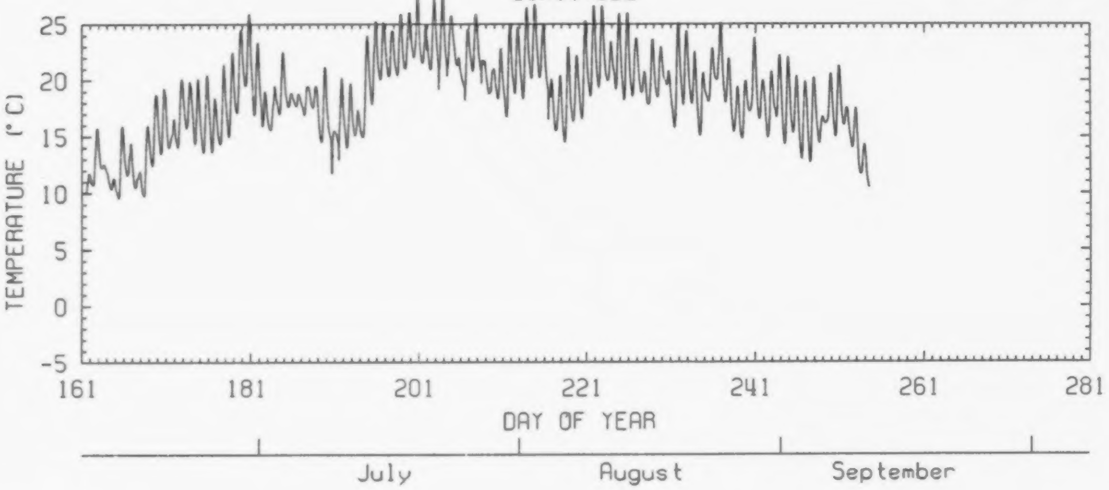
LATITUDE
MIDDLE BROOK FISHWAY, GAMBO
LONGITUDE



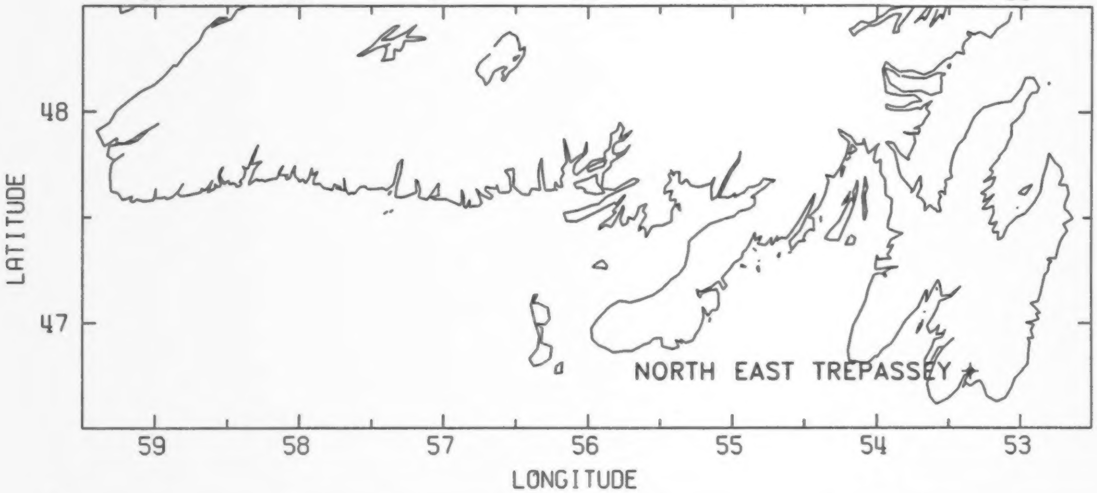
Start: 10-JUN-2003 End: 11-SEP-2003 Inst. S/N:8961

THERMOGRAPH DATA SUMMARY: NORTH EAST TREPASSEY (130) 2003

STATION NAME:	NORTH EAST TREPASSEY
STATION NUMBER:	130
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006641
LATITUDE:	46.77° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-MAY-2003 14:00 GMT
RECOVERY DATE/TIME:	24-SEP-2003 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	5.65	132	16.55	148	9.67	2.35	241.7	141.7	586
JUN-2003	8.35	168	22.50	180	13.43	2.77	402.9	282.9	720
JUL-2003	13.85	192	24.20	203	18.13	2.27	562.2	438.2	744
AUG-2003	14.85	220	23.75	215	18.12	1.76	561.6	437.6	744
SEP-2003	12.30	255	21.50	258	16.22	1.93	388.8	292.8	566
T.PERIOD	5.65	132	24.20	203	15.32	3.87	2157.1	1593.1	3360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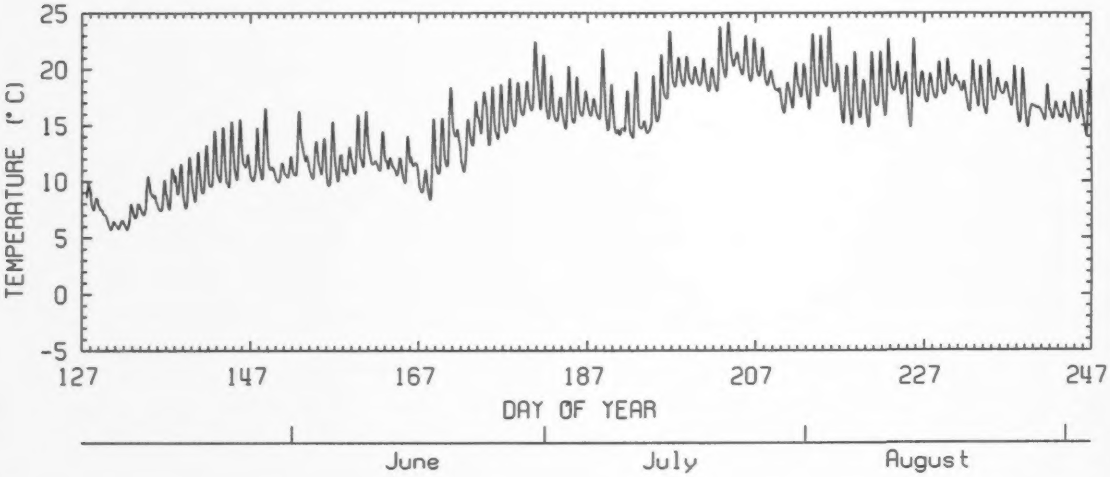
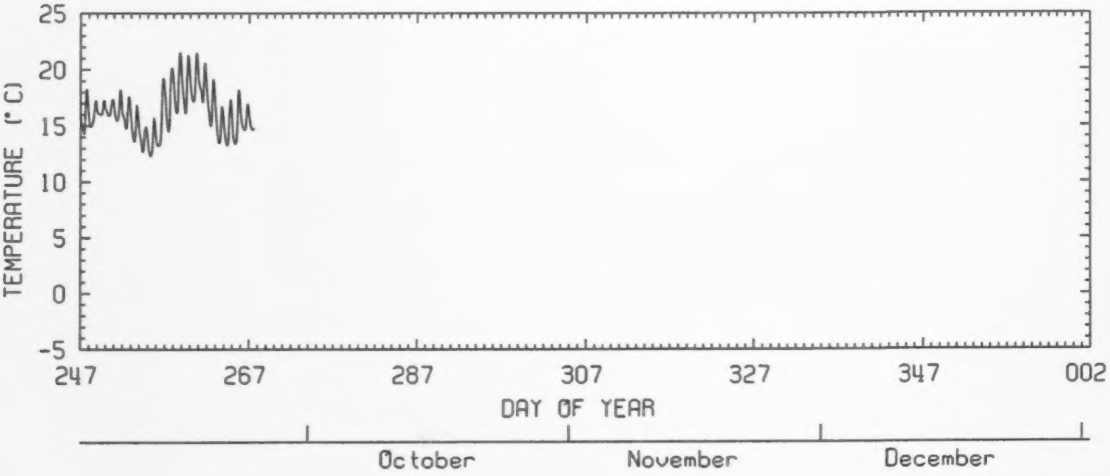
LATITUDE
LONGITUDE
NORTH EAST TREPASSEY





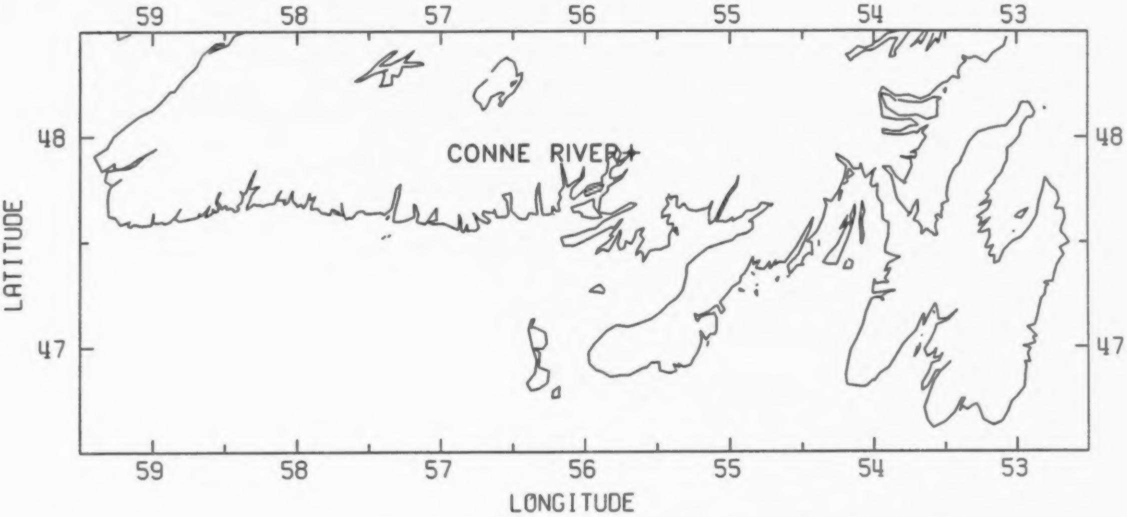
Start: 7-MAY-2003 End:24-SEP-2003 Inst. S/N:6641

THERMOGRAPH DATA SUMMARY: CONNE RIVER (133) 2003

STATION NAME:	CONNE RIVER
STATION NUMBER:	133
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005456
LATITUDE:	47.92° N
LONGITUDE:	55.68° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-MAY-2003 17:00 GMT
RECOVERY DATE/TIME:	03-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	4.55	124	17.70	148	10.54	3.30	325.9	201.9	727
JUN-2003	9.20	156	25.95	180	15.39	3.29	461.8	341.8	720
JUL-2003	13.85	191	25.00	200	19.14	2.41	593.4	469.4	744
AUG-2003	13.75	239	25.35	222	19.52	2.25	605.0	481.0	744
SEP-2003	12.25	246	19.85	245	16.33	1.90	48.4	36.4	64
T.PERIOD	4.55	124	25.95	180	16.19	4.56	2034.5	1530.5	2999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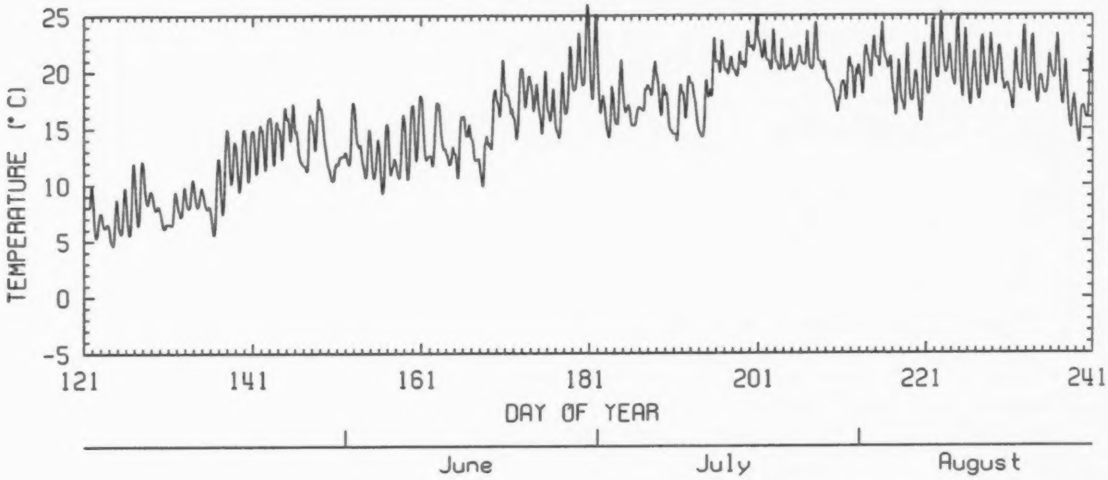
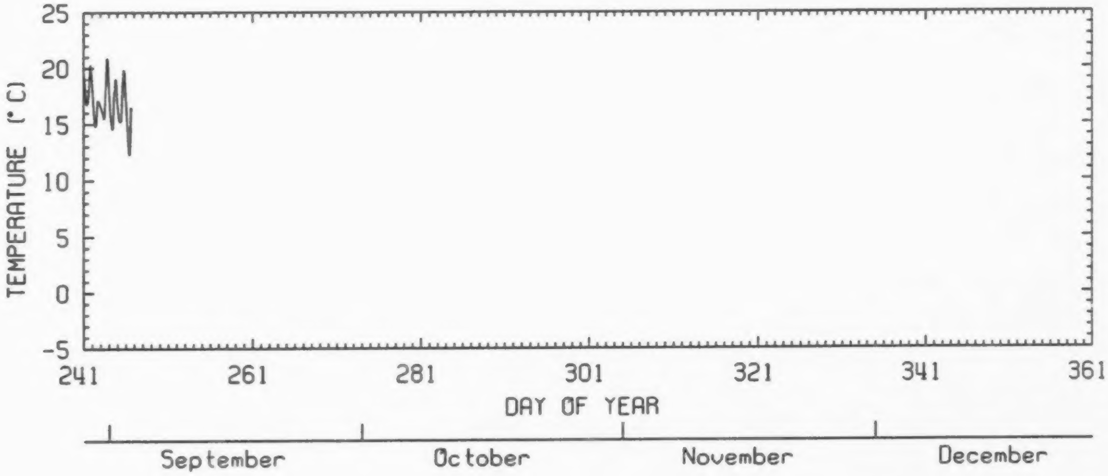
LATITUDE
CONNE RIVER
LONGITUDE





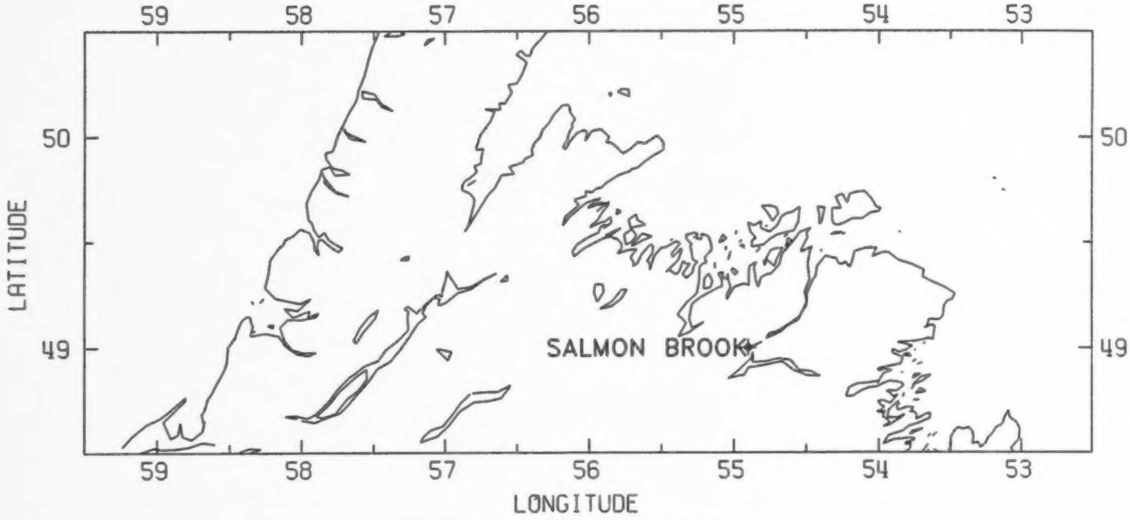
Start: 1-MAY-2003 End: 3-SEP-2003 Inst. S/N:5456

THERMOGRAPH DATA SUMMARY: SALMON BROOK (152) 2003

STATION NAME:	SALMON BROOK
STATION NUMBER:	152
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007410
LATITUDE:	49.00° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUN-2003 12:00 GMT
RECOVERY DATE/TIME:	06-OCT-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	9.60	165	25.60	180	17.43	3.70	310.7	238.7	420
JUL-2003	14.50	192	25.10	200	20.23	2.60	627.1	503.1	744
AUG-2003	15.40	239	25.40	213	20.01	2.17	620.3	496.3	744
SEP-2003	10.60	255	23.70	260	16.90	2.54	507.1	387.1	720
OCT-2003	14.50	277	19.40	274	16.97	1.12	101.7	77.7	133
T.PERIOD	9.60	165	25.60	180	18.72	3.04	2167.0	1703.0	2761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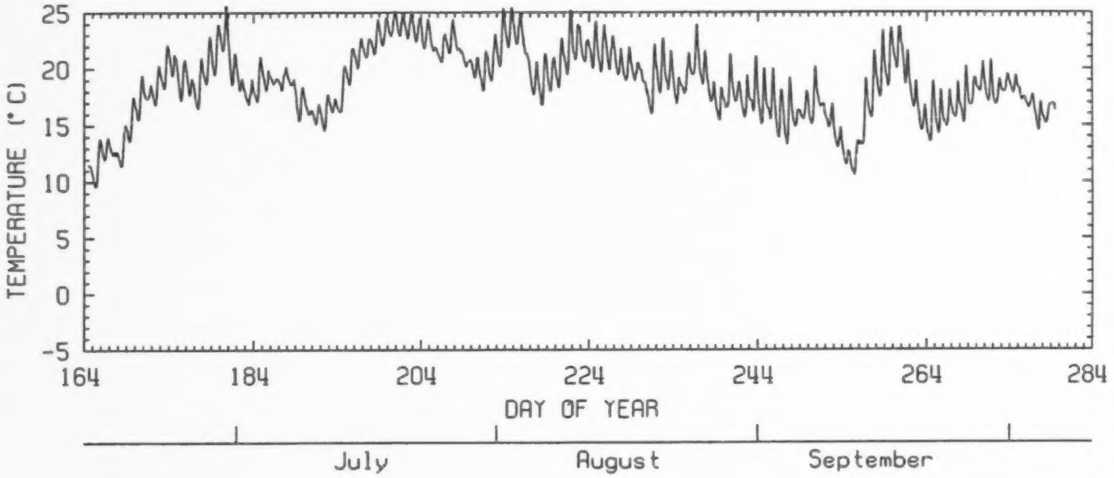
LATITUDE
SALMON BROOK
LONGITUDE



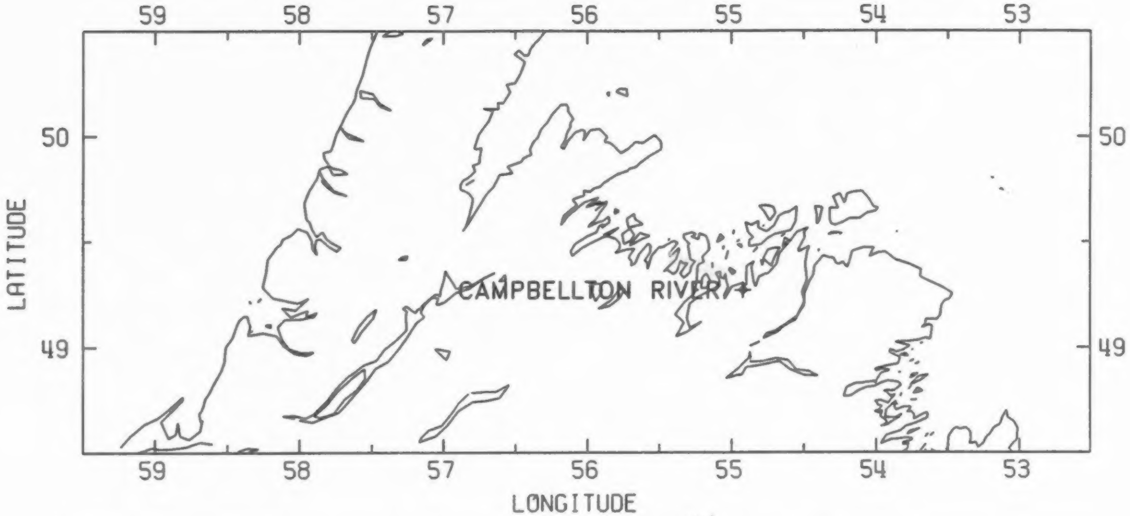
Start: 13-JUN-2003 End: 6-OCT-2003 Inst. S/N:7410

THERMOGRAPH DATA SUMMARY: CAMPBELLTON RIVER (181) 2003

STATION NAME:	CAMPBELLTON RIVER
STATION NUMBER:	181
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008A0B
LATITUDE:	49.27° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	08-MAY-2003 12:00 GMT
RECOVERY DATE/TIME:	27-AUG-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	5.45	136	17.35	148	9.94	2.91	238.3	142.3	564
JUN-2003	9.80	165	26.40	180	15.78	3.70	473.4	353.4	720
JUL-2003	14.20	192	26.75	202	20.40	3.07	632.5	508.5	744
AUG-2003	14.70	239	24.85	221	20.48	2.10	550.7	442.7	637
T.PERIOD	5.45	136	26.75	202	16.96	5.12	1894.8	1446.8	2665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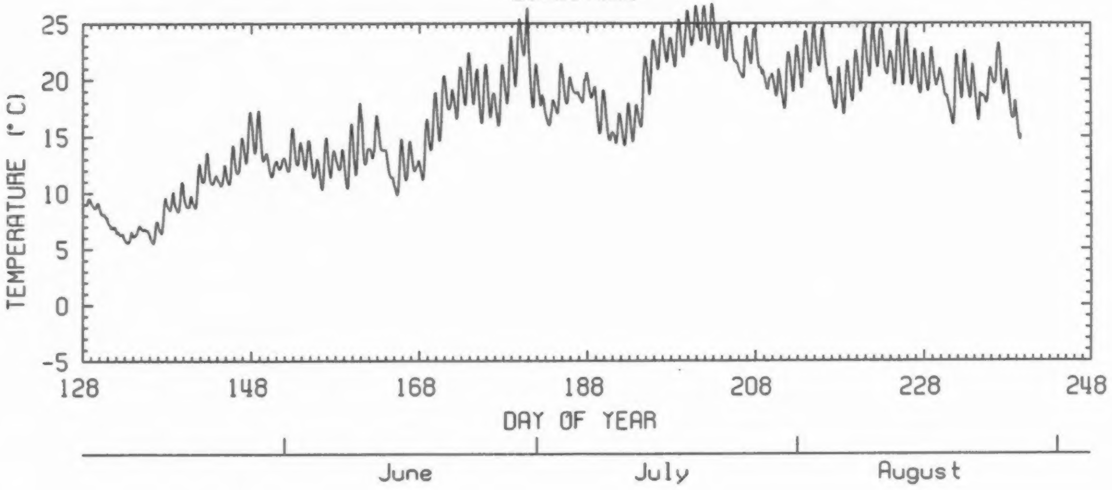
LATITUDE
CAMPBELLTON RIVER
LONGITUDE



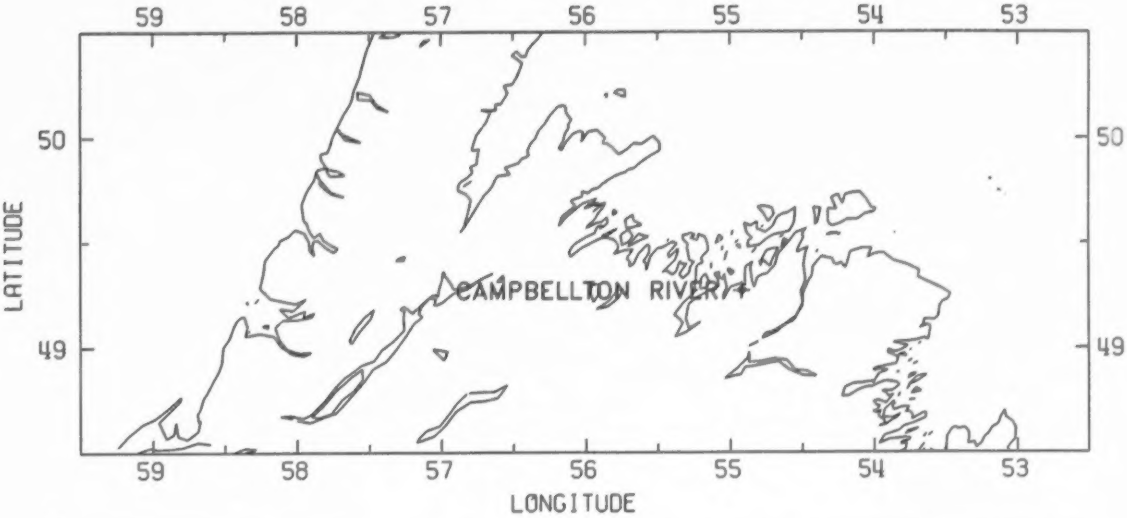
Start: 8-MAY-2003 End: 27-AUG-2003 Inst. S/N:8A0B

THERMOGRAPH DATA SUMMARY: CAMPBELLTON RIVER (181) 2003

STATION NAME:	CAMPBELLTON RIVER
STATION NUMBER:	181
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	6431
LATITUDE:	49.27° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	7 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-MAY-2003 22:00 GMT
RECOVERY DATE/TIME:	14-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-0.10	149	4.70	140	1.16	0.84	16.5	0.0	290
JUN-2003	-0.40	154	14.60	180	5.49	2.90	164.8	58.8	720
JUL-2003	3.70	190	16.50	207	10.38	2.46	321.8	197.8	744
AUG-2003	10.90	229	19.10	224	15.37	1.80	476.5	352.5	744
SEP-2003	13.90	255	16.80	244	15.27	0.81	213.4	157.4	328
T.PERIOD	-0.40	154	19.10	224	10.07	5.36	1193.0	766.5	2826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LATITUDE
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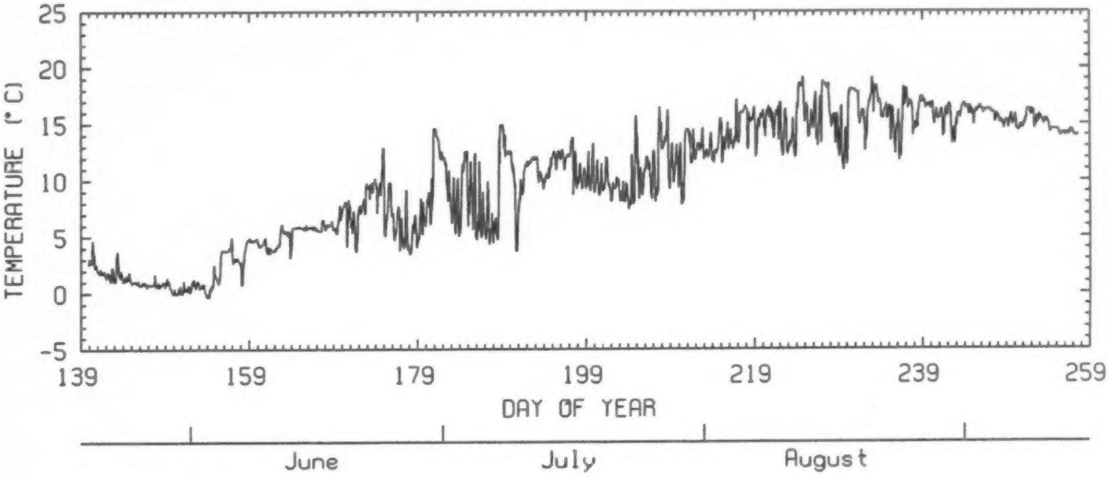
LONGITUDE



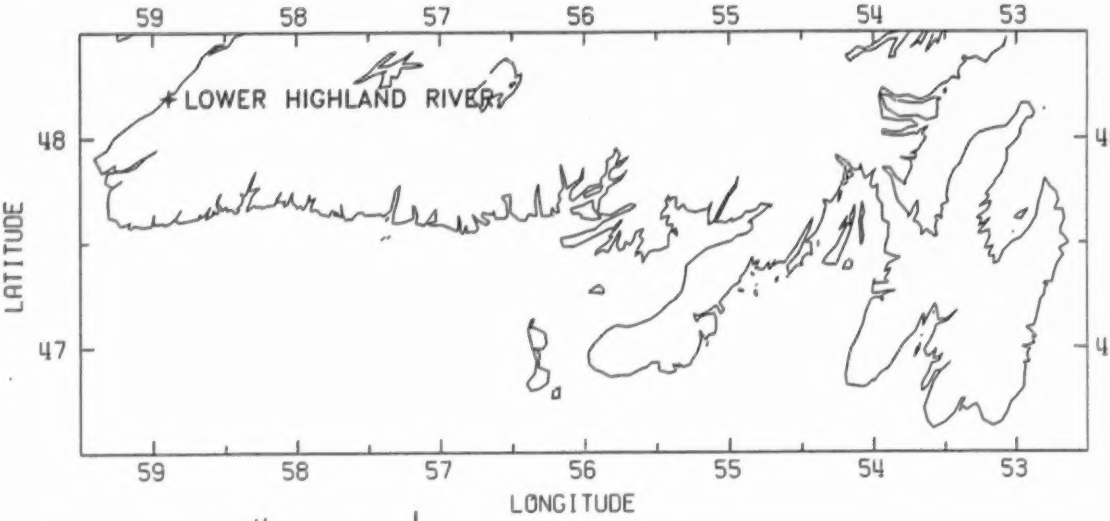
Start: 19-MAY-2003 End: 14-SEP-2003 Inst. S/N:6431

THERMOGRAPH DATA SUMMARY: LOWER HIGHLAND RIVER (190) 2003

STATION NAME:	LOWER HIGHLAND RIVER
STATION NUMBER:	190
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	005459
LATITUDE:	48.19° N
LONGITUDE:	58.89° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	01-JUL-2003 17:00 GMT
RECOVERY DATE/TIME:	30-OCT-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	13.60	184	26.80	203	19.26	3.13	596.9	472.9	727
AUG-2003	14.25	243	27.35	221	19.48	2.77	604.0	480.0	744
SEP-2003	11.05	254	23.30	259	16.41	2.42	492.4	372.4	720
OCT-2003	6.55	294	18.30	278	11.22	2.38	336.8	216.8	712
T.PERIOD	6.55	294	27.35	221	16.64	4.27	2030.1	1542.1	2903


LOWER HIGHLAND RIVER
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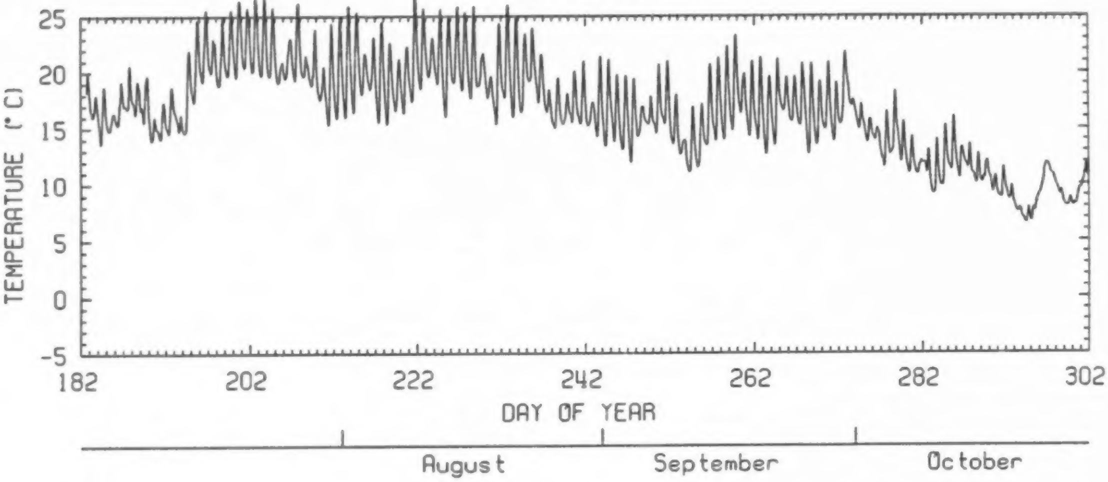
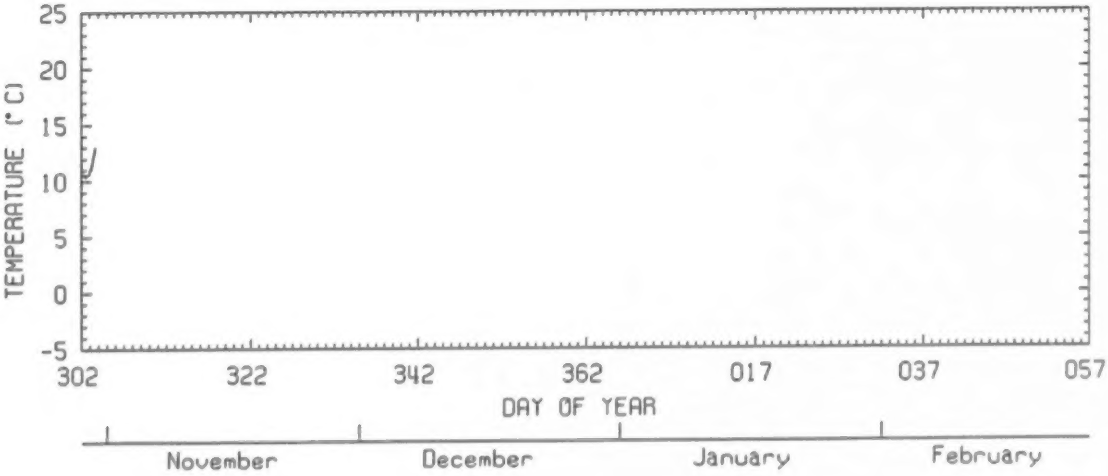
LATITUDE
LONGITUDE





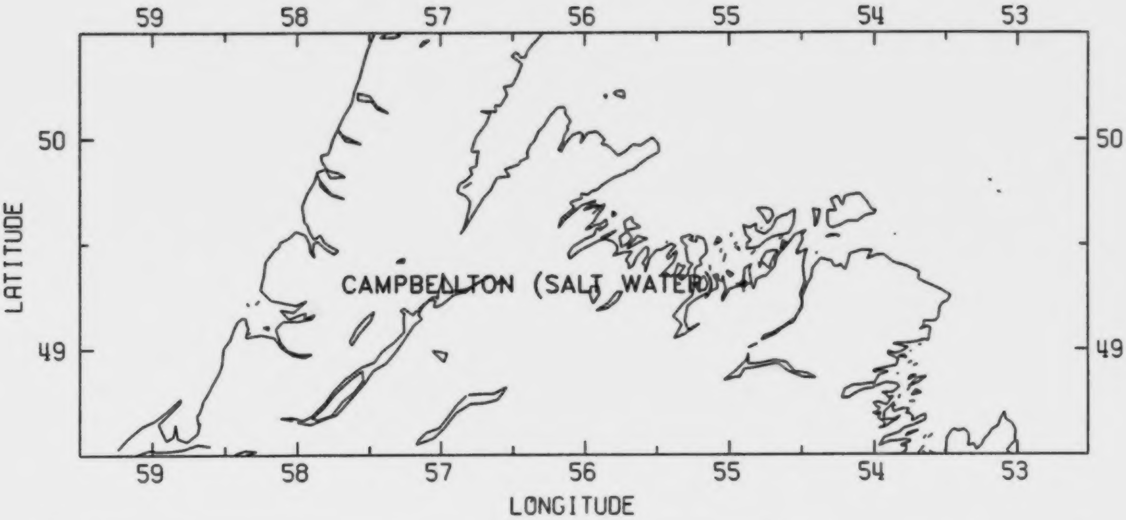
Start: 1-JUL-2003   End:30-OCT-2003   Inst. S/N:5459

THERMOGRAPH DATA SUMMARY: CAMPBELLTON (SALT WATER) (195) 2003

STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008955
LATITUDE:	49.31° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	30 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-MAY-2003 22:00 GMT
RECOVERY DATE/TIME:	14-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-1.20	144	-1.00	143	-1.11	0.04	0.0	0.0	290
JUN-2003	-1.20	152	-0.40	177	-0.94	0.17	0.0	0.0	720
JUL-2003	-0.75	182	1.05	208	-0.06	0.32	3.0	0.0	744
AUG-2003	0.05	232	1.50	236	0.72	0.31	22.5	0.0	744
SEP-2003	-0.45	252	1.90	257	0.10	0.49	3.3	0.0	328
T.PERIOD	-1.20	144	1.90	257	-0.17	0.74	28.8	0.0	2826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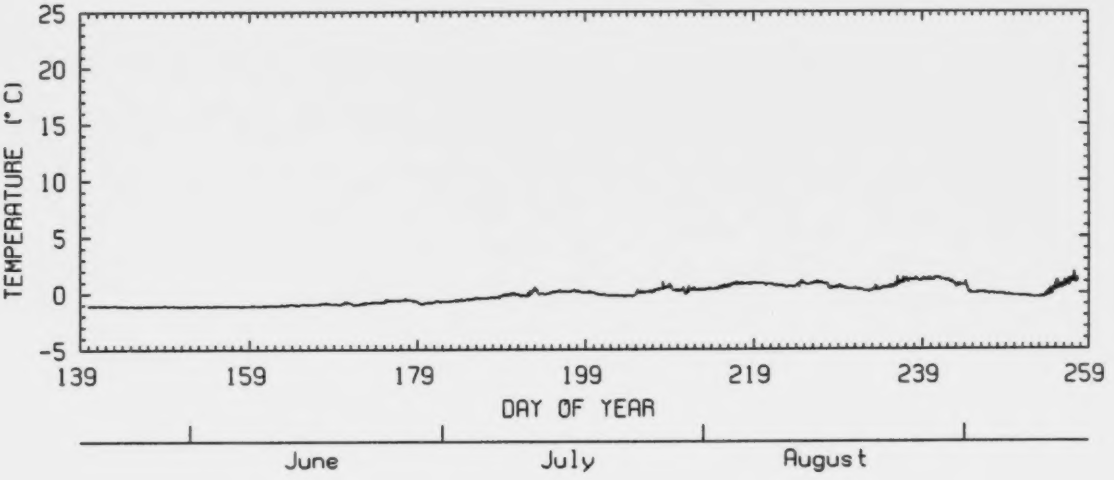
LATITUDE
LONGITUDE
CAMPBELLTON (SALT WATER)



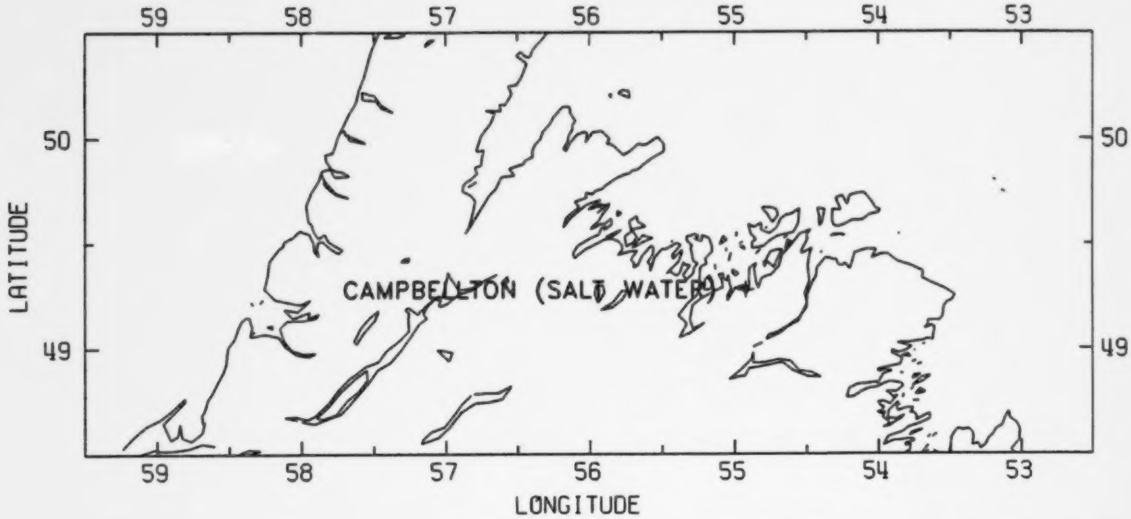
Start: 19-MAY-2003 End: 14-SEP-2003 Inst. S/N:8955

THERMOGRAPH DATA SUMMARY: CAMPBELLTON (SALT WATER) (195) 2003

STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007930
LATITUDE:	49.28° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	7 m
WATER DEPTH:	8 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-MAY-2003 22:00 GMT
RECOVERY DATE/TIME:	14-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2003	-0.10	150	4.80	140	1.23	0.86	17.5	0.0	290
JUN-2003	-0.30	154	14.75	181	5.58	2.91	167.4	60.9	720
JUL-2003	3.70	190	16.60	204	10.52	2.46	326.2	202.2	744
AUG-2003	10.95	229	19.15	224	15.51	1.78	480.9	356.9	744
SEP-2003	13.90	255	16.75	244	15.33	0.81	214.2	158.2	328
T.PERIOD	-0.30	154	19.15	224	10.18	5.38	1206.2	778.3	2826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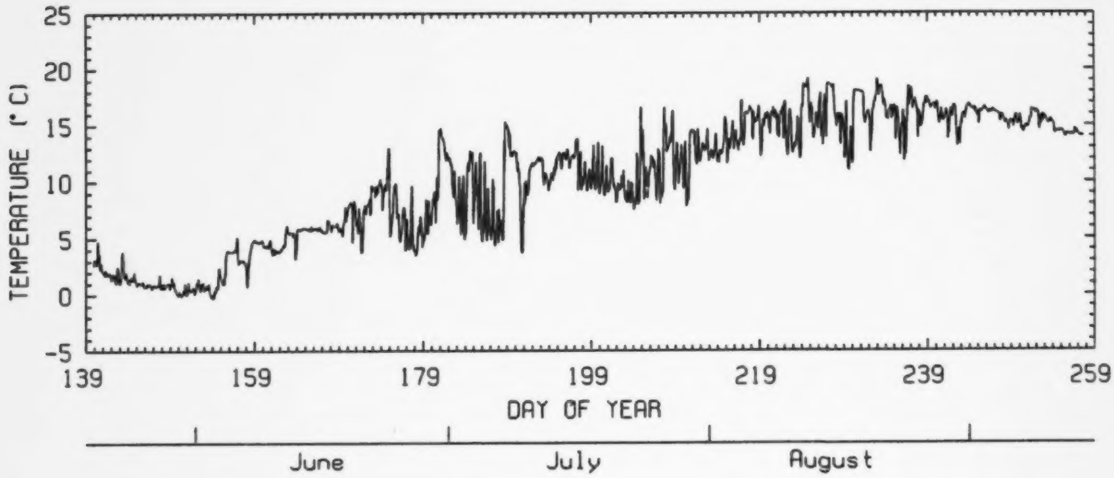
LATITUDE
CAMPBELLTON (SALT WATER)
LONGITUDE



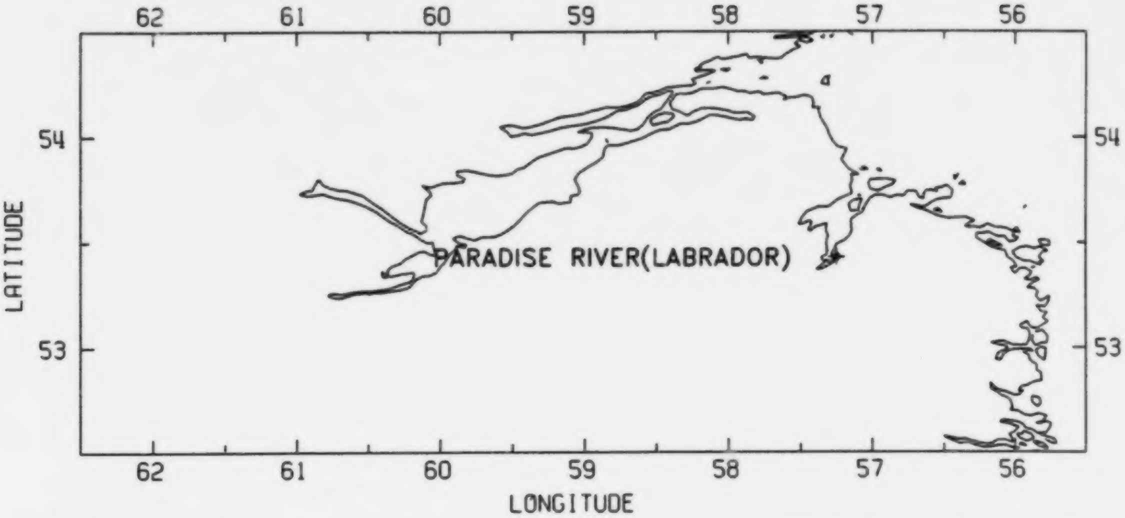
Start: 19-MAY-2003   End: 14-SEP-2003   Inst. S/N:7930

THERMOGRAPH DATA SUMMARY: PARADISE RIVER(LABRADOR) (229) 2003

STATION NAME:	PARADISE RIVER(LABRADOR)
STATION NUMBER:	229
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009380
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUN-2003 13:00 GMT
RECOVERY DATE/TIME:	09-SEP-2003 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	10.30	170	21.10	179	14.83	2.01	206.3	150.3	323
JUL-2003	8.90	192	22.20	205	15.73	3.60	487.7	363.7	744
AUG-2003	9.80	239	23.20	222	15.80	2.74	489.6	365.6	744
SEP-2003	10.30	252	14.90	249	12.41	1.02	111.4	75.4	211
T.PERIOD	8.90	192	23.20	222	15.26	3.06	1295.1	955.1	2022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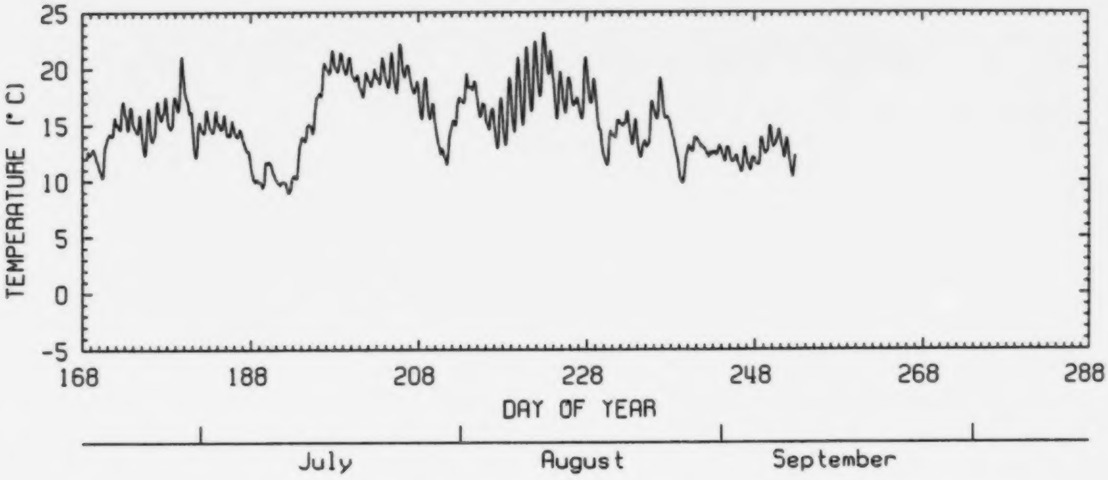
LATITUDE
LONGITUDE
PARADISE RIVER(LABRADOR)



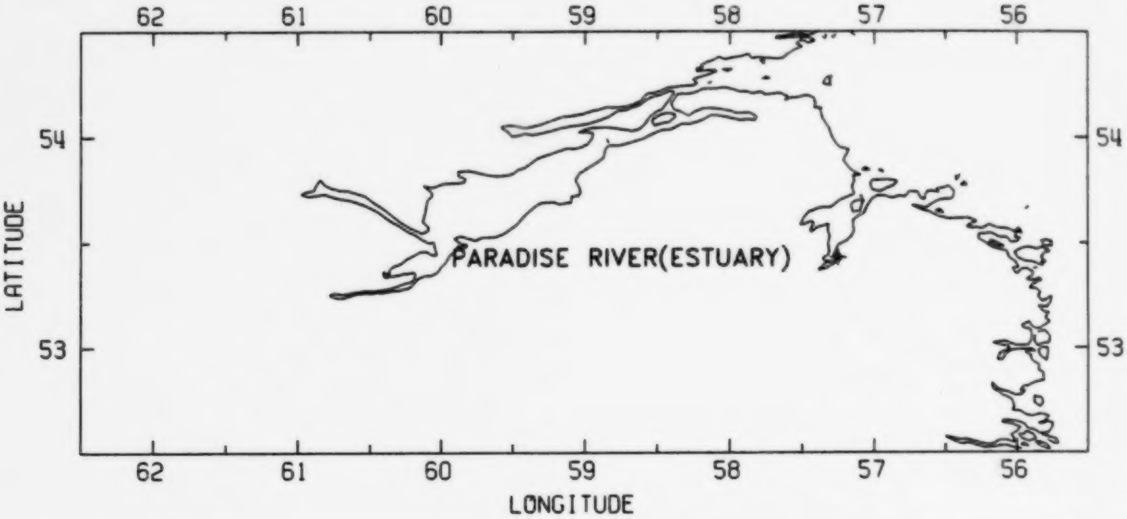
Start: 17-JUN-2003 End: 9-SEP-2003 Inst. S/N:9380

THERMOGRAPH DATA SUMMARY: PARADISE RIVER(ESTUARY) (232) 2003

STATION NAME:	PARADISE RIVER(ESTUARY)
STATION NUMBER:	232
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009372
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	16-JUN-2003 21:00 GMT
RECOVERY DATE/TIME:	10-SEP-2003 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	3.40	179	17.10	181	12.44	2.60	186.1	126.1	339
JUL-2003	3.40	190	20.80	206	14.27	3.31	442.5	318.5	744
AUG-2003	4.60	229	19.50	222	12.38	3.41	383.6	259.6	744
SEP-2003	7.00	248	13.30	244	9.93	1.59	99.7	59.7	228
T.PERIOD	3.40	179	20.80	206	12.80	3.37	1112.0	764.0	2055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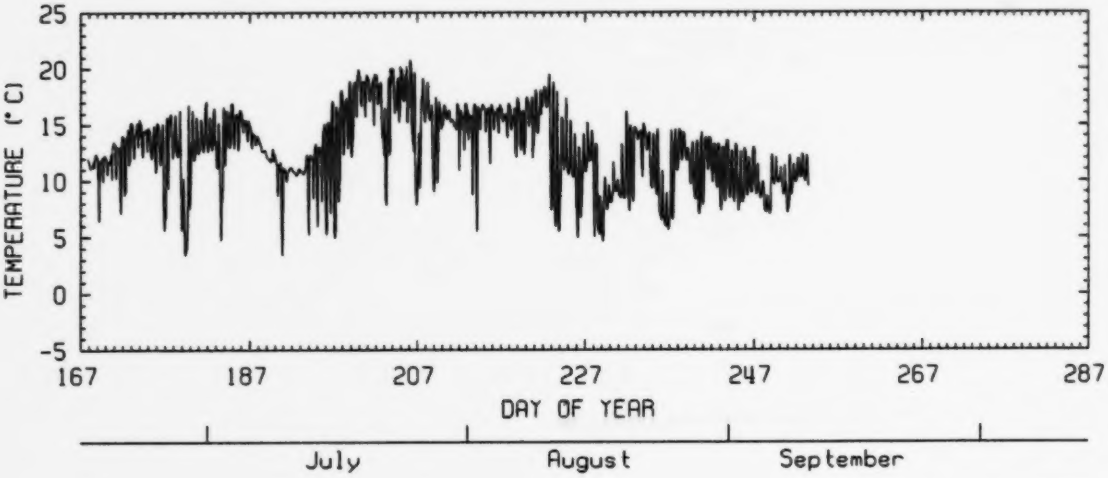
LATITUDE
PARADISE RIVER(ESTUARY)
LONGITUDE



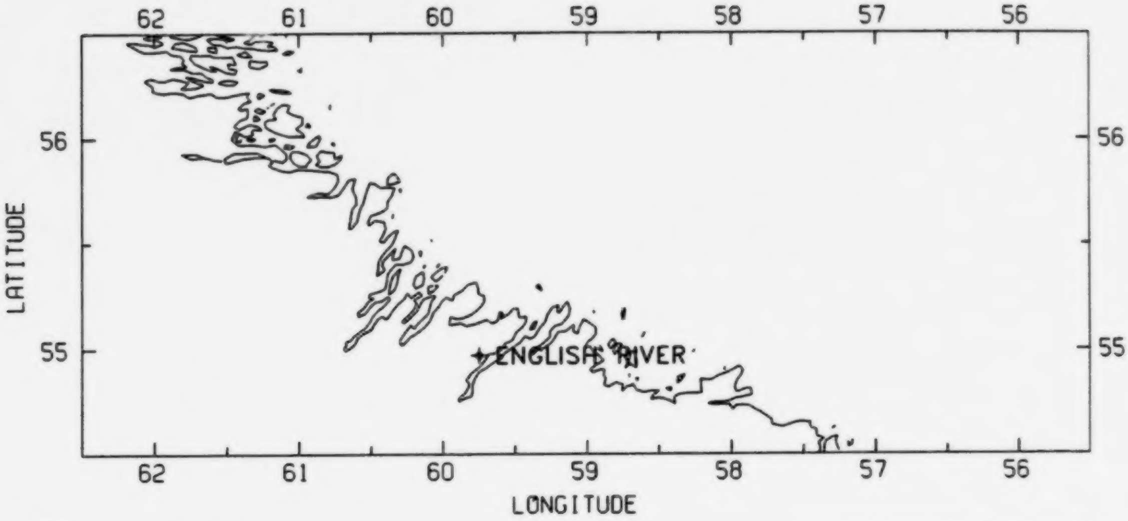
Start: 16-JUN-2003   End: 10-SEP-2003   Inst. S/N:9372

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER (245) 2003

STATION NAME:	ENGLISH RIVER
STATION NUMBER:	245
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009501
LATITUDE:	54.97° N
LONGITUDE:	59.75° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2003 13:00 GMT
RECOVERY DATE/TIME:	14-SEP-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	10.20	181	13.50	179	12.19	0.77	48.6	32.6	83
JUL-2003	8.00	182	19.70	212	13.43	2.65	416.4	292.4	744
AUG-2003	10.50	238	20.80	222	16.65	1.80	516.1	392.1	744
SEP-2003	10.90	253	14.90	248	12.83	0.79	179.9	123.9	325
T.PERIOD	8.00	182	20.80	222	14.54	2.67	1161.0	841.0	1896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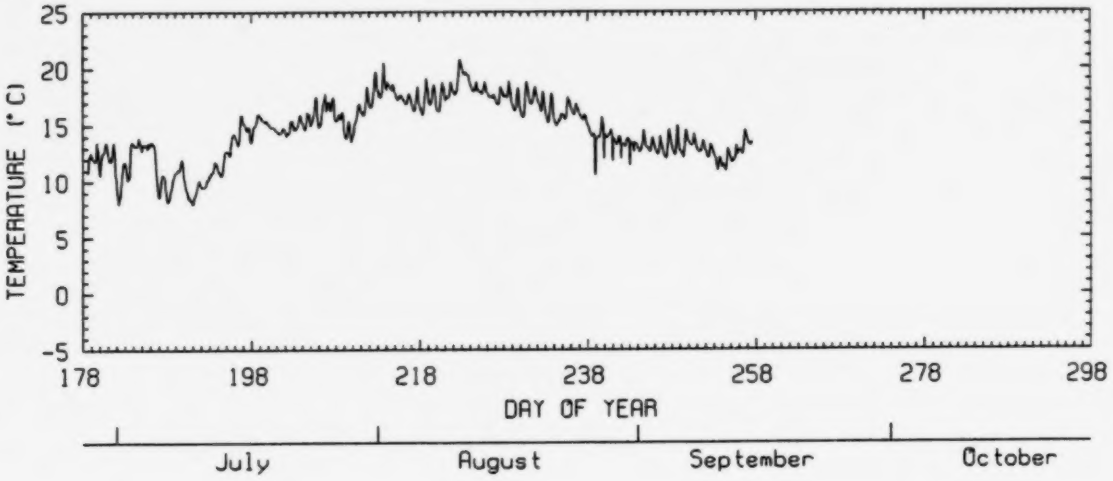
LATITUDE
ENGLISH RIVER
LONGITUDE



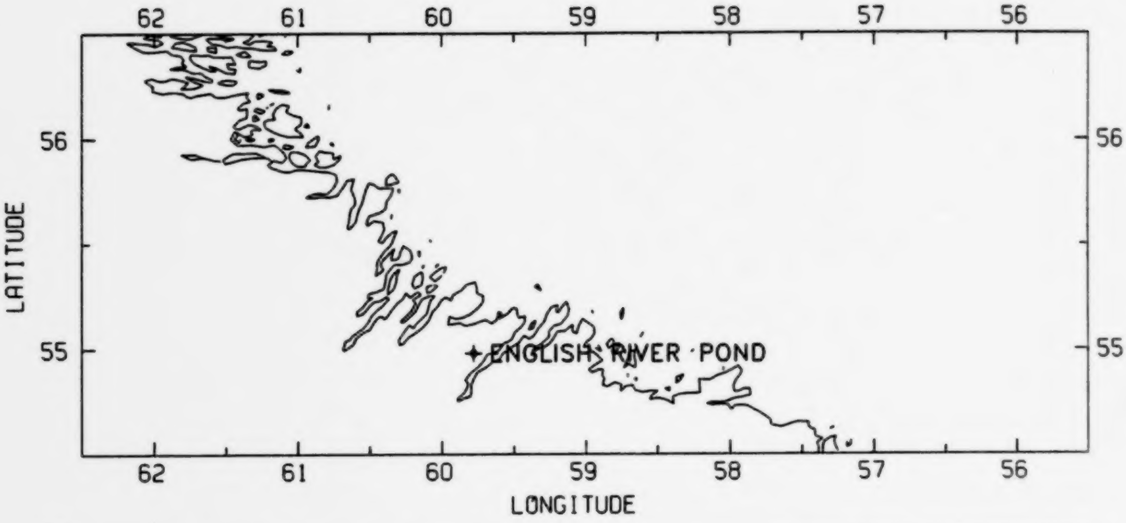
Start: 27-JUN-2003 End: 14-SEP-2003 Inst. S/N:9501

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER POND (271) 2003

STATION NAME:	ENGLISH RIVER POND
STATION NUMBER:	271
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009367
LATITUDE:	54.98° N
LONGITUDE:	59.78° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-JUN-2003 19:00 GMT
RECOVERY DATE/TIME:	12-SEP-2003 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	10.80	181	14.50	181	13.23	0.70	26.9	18.9	29
JUL-2003	8.40	182	19.50	212	13.76	2.63	426.5	302.5	744
AUG-2003	13.20	243	20.00	213	16.86	1.61	522.7	398.7	744
SEP-2003	11.80	254	13.80	248	12.88	0.46	154.2	106.2	278
T.PERIOD	8.40	182	20.00	213	14.90	2.61	1130.3	826.3	1795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LATITUDE
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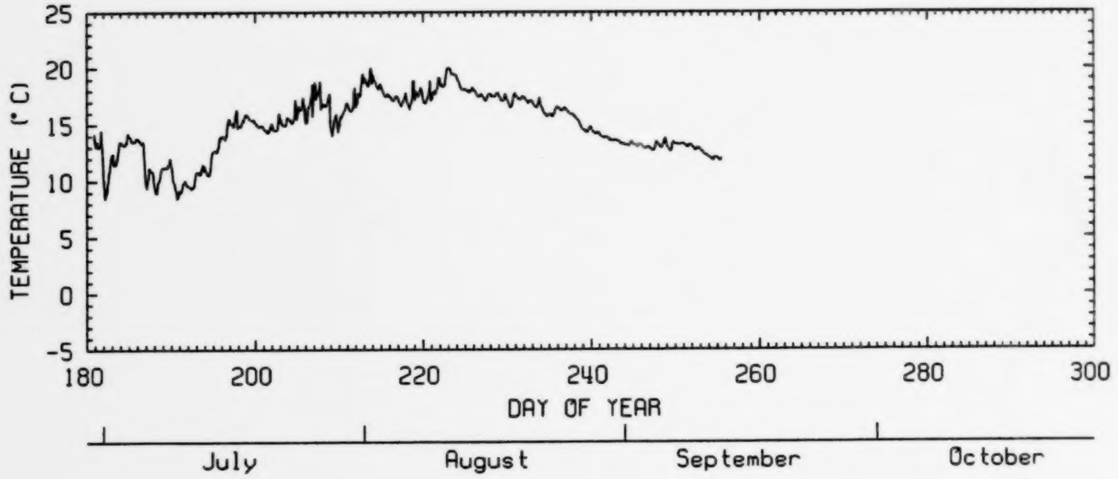
+ENGLISH RIVER POND



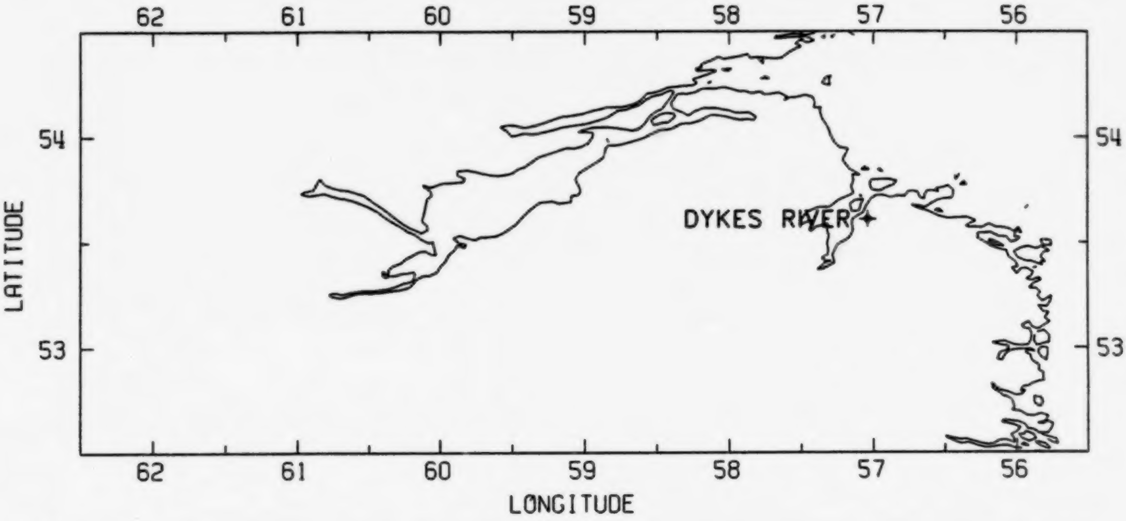
Start: 29-JUN-2003 End: 12-SEP-2003 Inst. S/N:9367

THERMOGRAPH DATA SUMMARY: DYKES RIVER (274) 2003

STATION NAME:	DYKES RIVER
STATION NUMBER:	274
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009373
LATITUDE:	53.61° N
LONGITUDE:	57.04° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	30-JUN-2003 13:00 GMT
RECOVERY DATE/TIME:	09-SEP-2003 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	11.50	181	14.90	181	13.50	1.19	13.5	9.5	11
JUL-2003	9.00	189	21.30	205	15.50	3.24	480.5	356.5	744
AUG-2003	10.10	239	21.60	223	16.01	2.41	496.2	372.2	744
SEP-2003	11.20	252	14.60	249	13.00	0.85	116.6	80.6	205
T.PERIOD	9.00	189	21.60	223	15.41	2.84	1106.8	818.8	1704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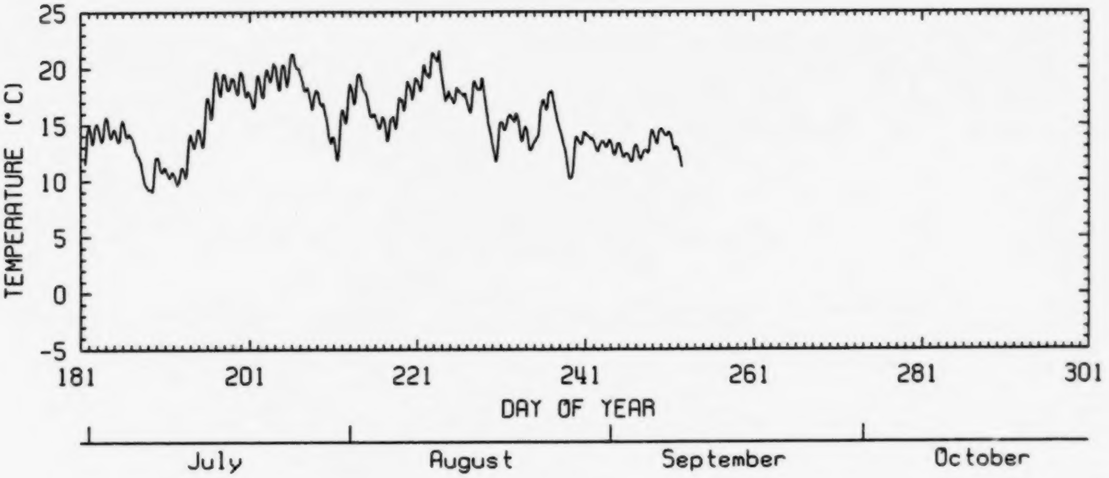
LATITUDE
DYKES RIVER
LONGITUDE



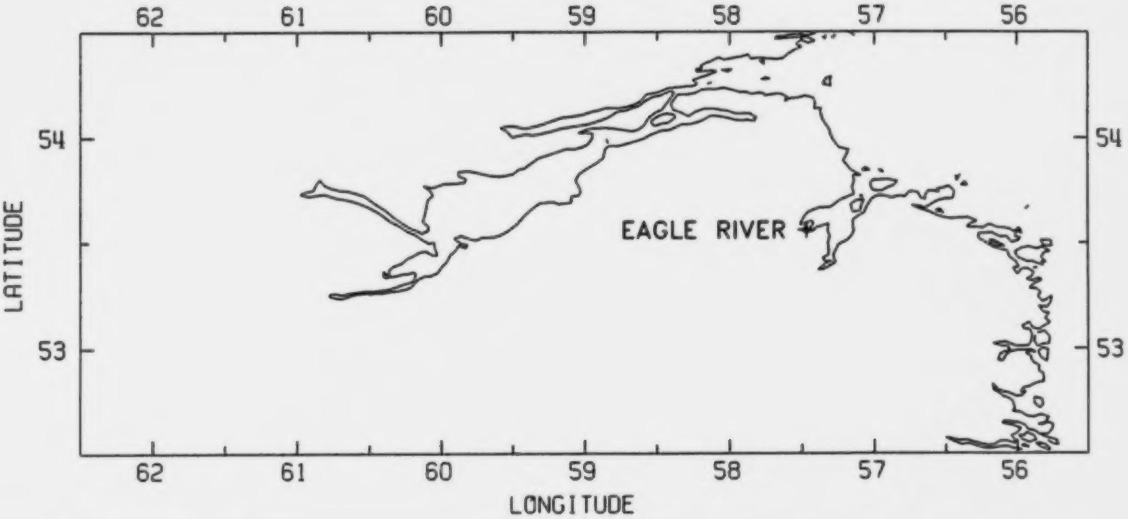
Start: 30-JUN-2003   End: 9-SEP-2003   Inst. S/N:9373

THERMOGRAPH DATA SUMMARY: EAGLE RIVER (275) 2003

STATION NAME:	EAGLE RIVER
STATION NUMBER:	275
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009370
LATITUDE:	53.56° N
LONGITUDE:	57.47° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUN-2003 14:00 GMT
RECOVERY DATE/TIME:	27-AUG-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	13.60	170	19.70	179	16.49	1.60	229.5	173.5	322
JUL-2003	11.40	192	21.10	203	16.93	2.97	524.8	400.8	744
AUG-2003	12.60	239	21.80	223	17.19	1.92	462.9	354.9	641
T.PERIOD	11.40	192	21.80	223	16.94	2.40	1217.3	929.3	1707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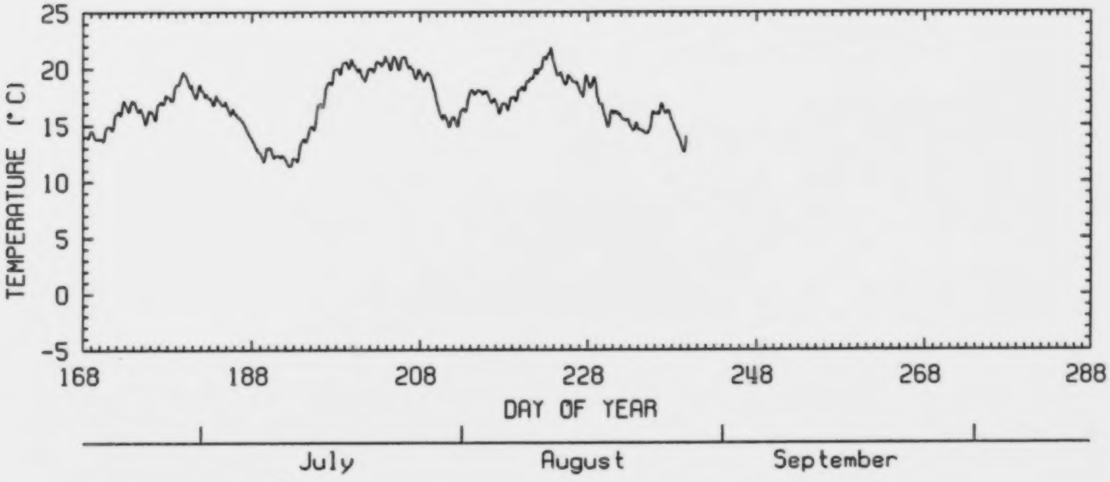
LATITUDE
LONGITUDE
EAGLE RIVER



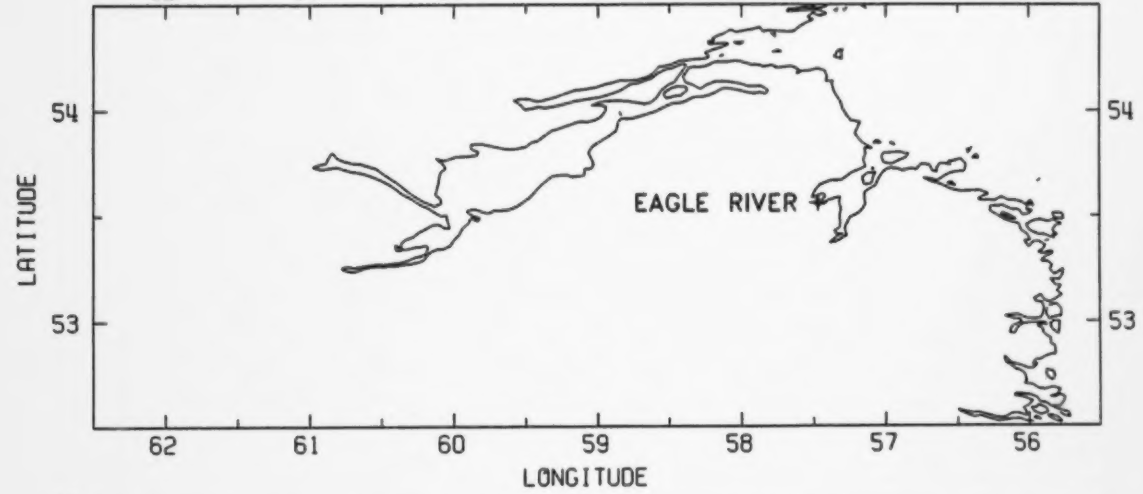
Start: 17-JUN-2003   End: 27-AUG-2003   Inst. S/N:9370

THERMOGRAPH DATA SUMMARY: EAGLE RIVER (275) 2003

STATION NAME:	EAGLE RIVER
STATION NUMBER:	275
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009378
LATITUDE:	53.56° N
LONGITUDE:	57.47° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	17-JUN-2003 14:00 GMT
RECOVERY DATE/TIME:	27-AUG-2003 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	13.50	170	19.50	179	16.42	1.61	228.5	172.5	322
JUL-2003	11.20	192	21.00	203	16.85	2.97	522.4	398.4	744
AUG-2003	12.60	239	21.60	223	17.11	1.92	460.8	352.8	641
T.PERIOD	11.20	192	21.60	223	16.87	2.41	1211.8	923.8	1707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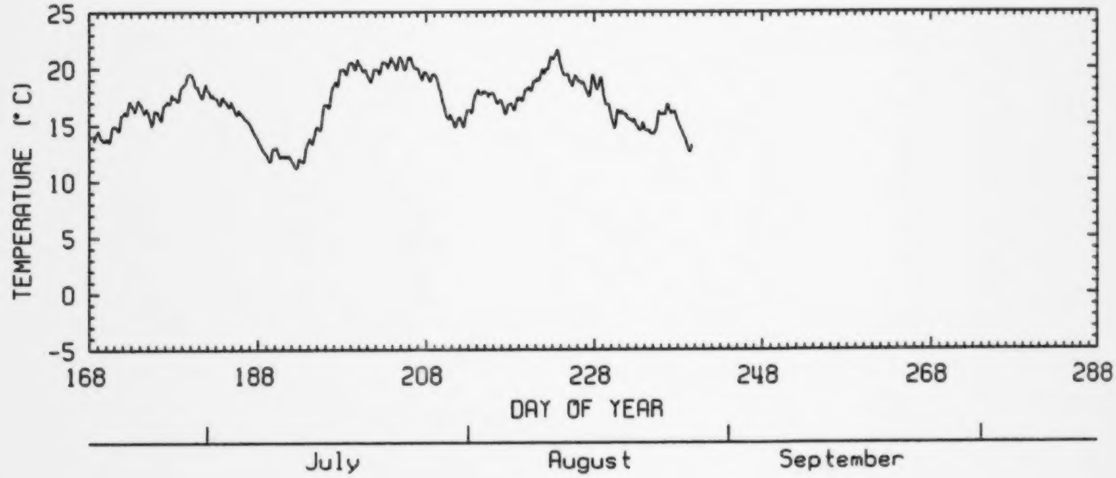
LATITUDE
LONGITUDE
EAGLE RIVER



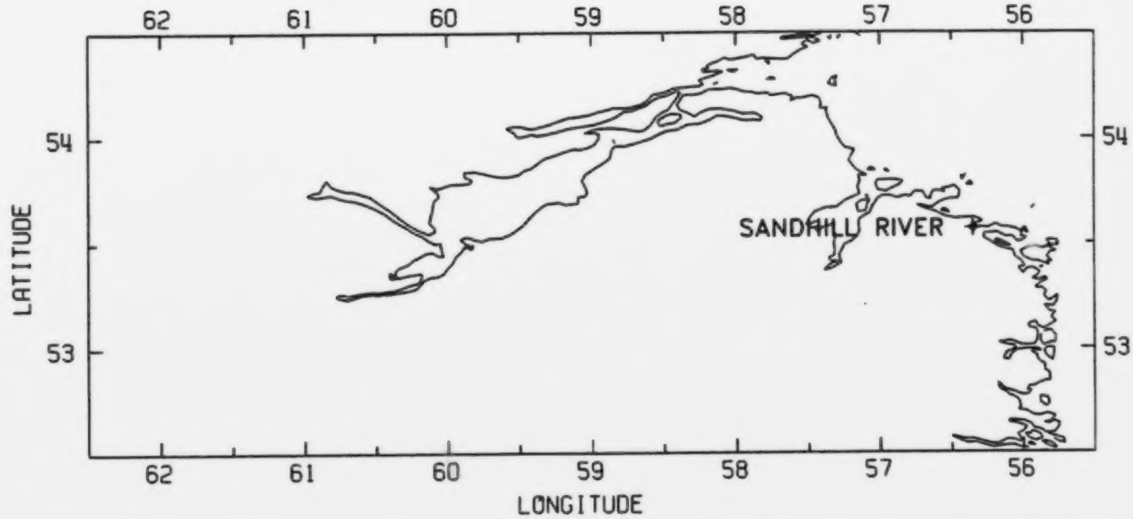
Start: 17-JUN-2003 End: 27-AUG-2003 Inst. S/N:9378

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (276) 2003

STATION NAME:	SANDHILL RIVER
STATION NUMBER:	276
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009503
LATITUDE:	53.57° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	24-JUN-2003 01:00 GMT
RECOVERY DATE/TIME:	09-SEP-2003 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2003	12.90	175	18.80	179	15.84	1.44	110.8	82.8	167
JUL-2003	10.20	192	21.10	198	16.19	3.28	501.9	377.9	744
AUG-2003	12.10	239	20.60	223	16.20	1.82	502.3	378.3	744
SEP-2003	12.00	247	14.30	250	13.15	0.58	118.2	82.2	208
T.PERIOD	10.20	192	21.10	198	15.82	2.60	1233.1	921.1	1863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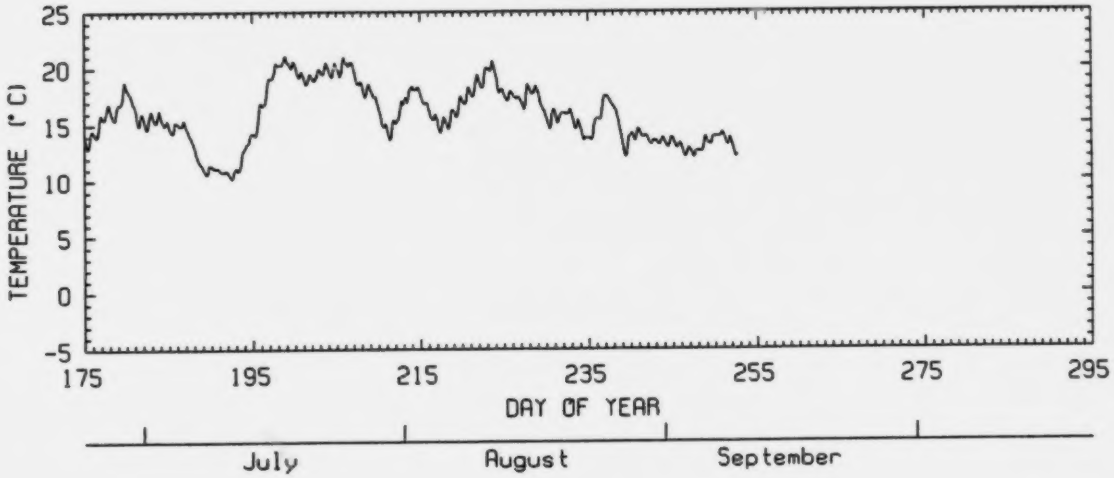
LATITUDE
SANDHILL RIVER
LONGITUDE



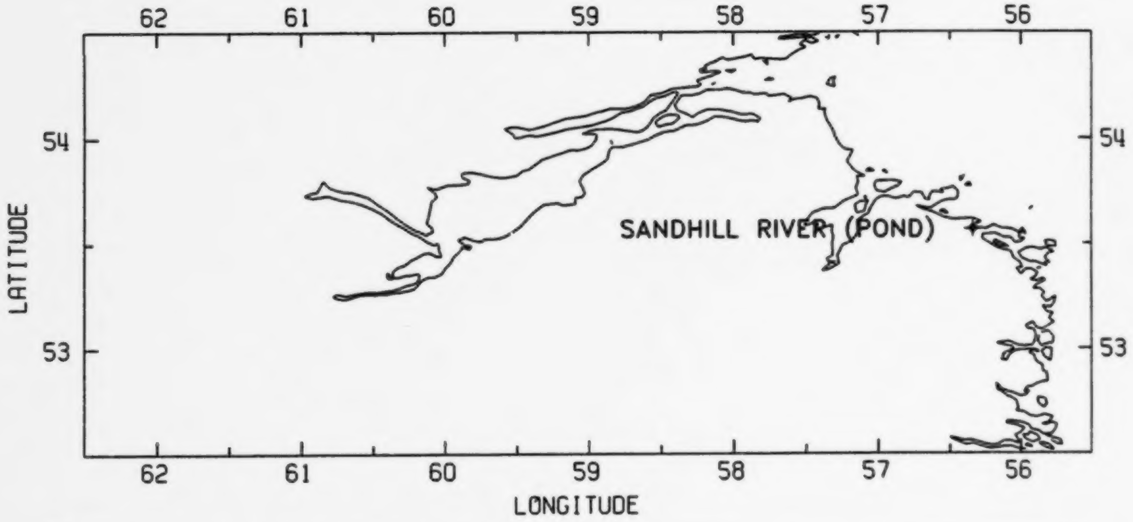
Start: 24-JUN-2003 End: 9-SEP-2003 Inst. S/N:9503

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (POND) (281) 2003

STATION NAME:	SANDHILL RIVER (POND)
STATION NUMBER:	281
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009369
LATITUDE:	53.57° N
LONGITUDE:	56.34° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	13-JUL-2003 15:00 GMT
RECOVERY DATE/TIME:	10-SEP-2003 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2003	12.60	211	20.80	198	17.97	2.05	338.9	262.9	441
AUG-2003	12.60	239	20.60	223	15.73	1.67	487.7	363.7	744
SEP-2003	11.20	253	14.30	250	12.89	0.64	128.6	88.6	234
T.PERIOD	11.20	253	20.80	198	15.96	2.38	955.3	715.3	1419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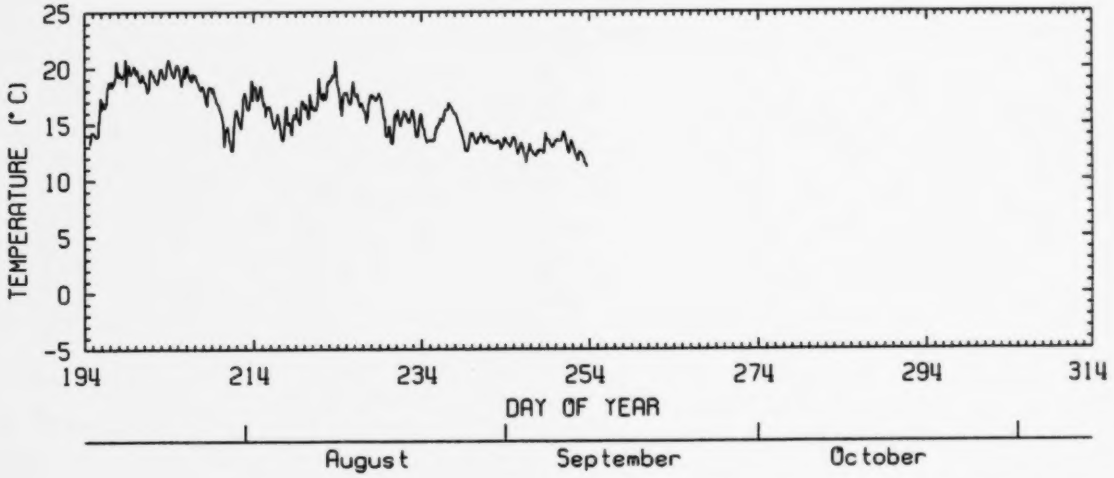
LATITUDE
LONGITUDE
SANDHILL RIVER (POND)



Start: 13-JUL-2003 End: 10-SEP-2003 Inst. S/N:9369

Long-Term Temperature Monitoring Program 2004, Newfoundland and Labrador Region

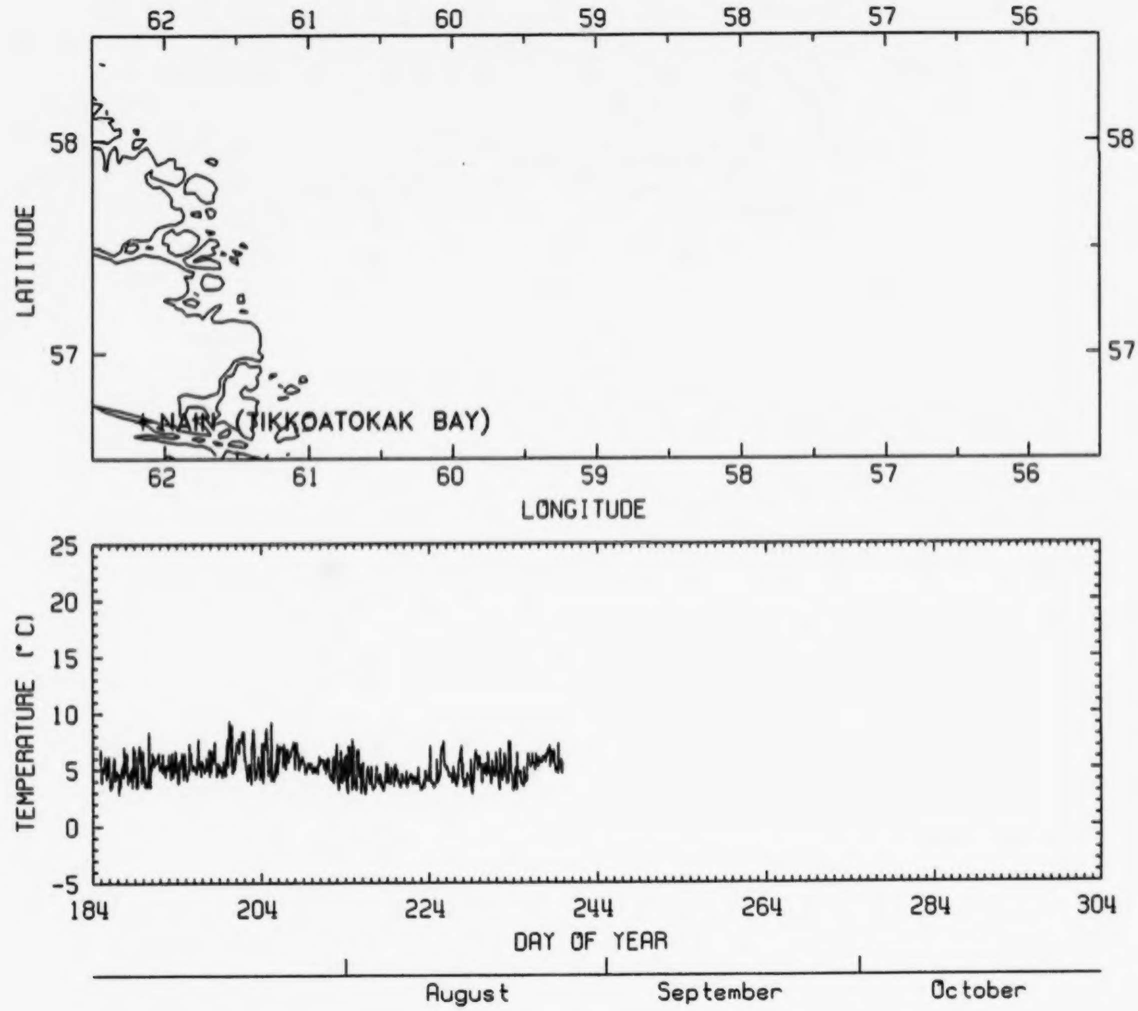
Appendix 1. Time Series Plots and Monthly Statistics from Unit Area 2Ha

THERMOGRAPH DATA SUMMARY: NAIN (TIKKOATOKAK BAY) (139) 2004

STATION NAME:	NAIN (TIKKOATOKAK BAY)
STATION NUMBER:	139
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009502
LATITUDE:	56.68° N
LONGITUDE:	62.15° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	12 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2004 21:00 GMT
RECOVERY DATE/TIME:	26-AUG-2004 20:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	2.80	187	9.30	200	5.46	1.09	164.3	44.3	699
AUG-2004	2.80	216	7.70	214	4.71	1.02	122.4	18.6	621
T.PERIOD	2.80	187	9.30	200	5.11	1.12	286.7	62.9	1320



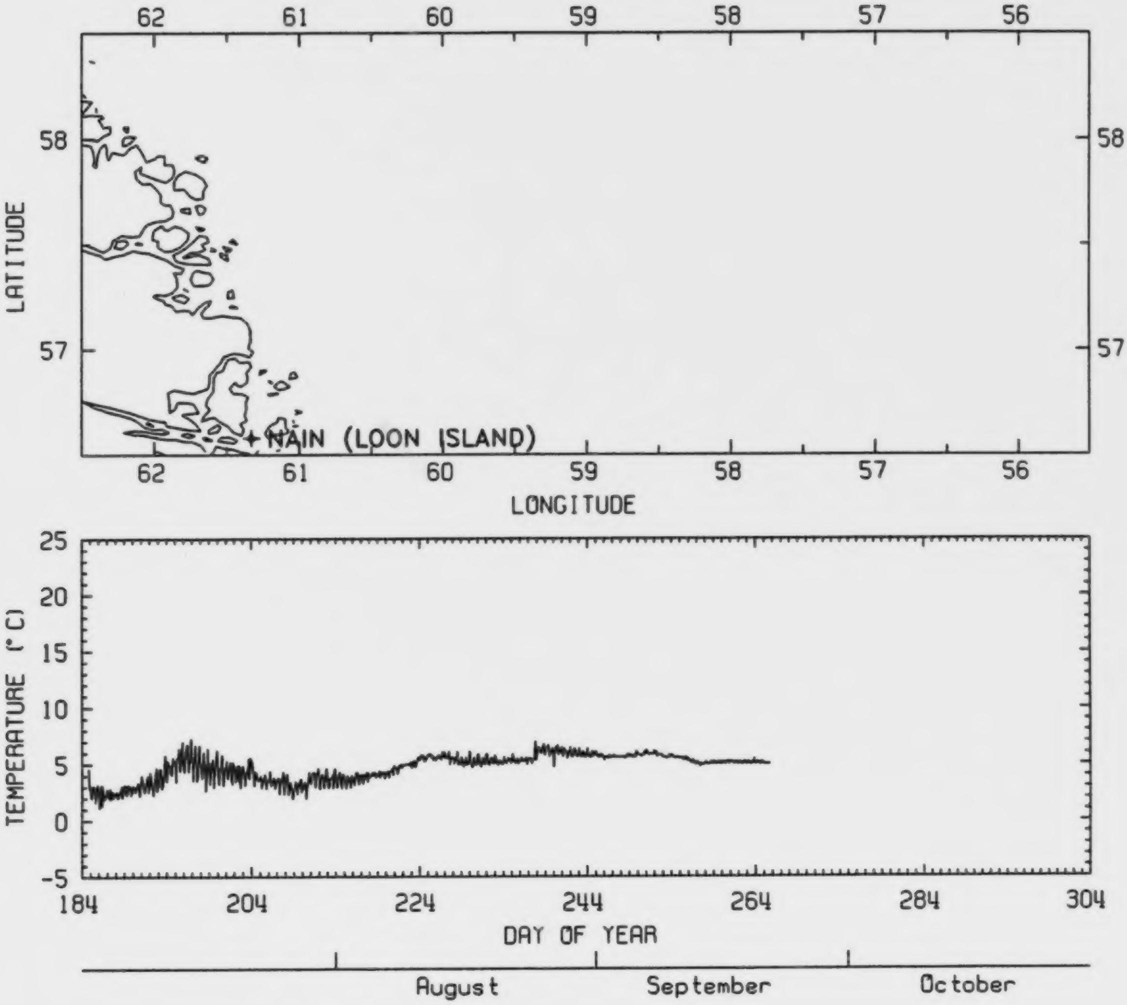
Start: 2-JUL-2004 End: 26-AUG-2004 Inst. S/N:9502

THERMOGRAPH DATA SUMMARY: NAIN (LOON ISLAND) (154) 2004

STATION NAME:	NAIN (LOON ISLAND)
STATION NUMBER:	154
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009498
LATITUDE:	56.58° N
LONGITUDE:	61.33° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	02-JUL-2004 19:00 GMT
RECOVERY DATE/TIME:	21-SEP-2004 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	1.10	186	7.30	196	3.75	1.09	112.1	7.8	701
AUG-2004	2.80	214	7.00	237	5.13	0.83	159.1	36.5	744
SEP-2004	4.70	257	6.20	251	5.40	0.34	113.3	29.3	498
T.PERIOD	1.10	186	7.30	196	4.70	1.12	384.5	73.6	1943



Start: 2-JUL-2004 End: 21-SEP-2004 Inst. S/N:9498

Appendix 2. Time Series Plots and Monthly Statistics from Unit Area 2Ja

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER(SALT WATER) (247) 2004

STATION NAME: ENGLISH RIVER(SALT WATER)

STATION NUMBER: 247

INSTRUMENT TYPE: Minilog-T (Vemco)

INSTRUMENT S/N: 002180

LATITUDE: 54.96° N

LONGITUDE: 59.72° W

INSTRUMENT DEPTH: 1 m

WATER DEPTH: 5 m

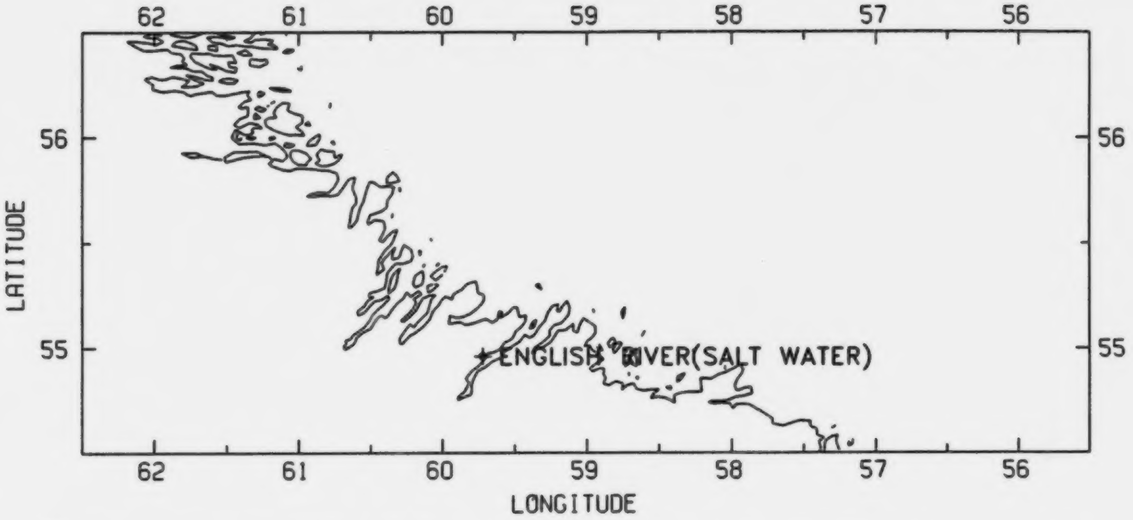
SAMPLE INTERVAL: 60 min.

DEPLOYMENT DATE/TIME: 04-JUL-2004 17:00 GMT

RECOVERY DATE/TIME: 03-OCT-2004 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	1.60	205	16.90	197	10.53	2.66	291.3	179.3	655
AUG-2004	8.00	226	16.10	215	12.03	1.21	373.0	249.0	744
SEP-2004	4.30	270	12.30	245	7.97	1.76	239.1	119.1	720
OCT-2004	4.80	275	7.60	276	6.08	0.50	18.4	6.4	60
T.PERIOD	1.60	205	16.90	197	10.07	2.63	921.7	553.7	2179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LATITUDE
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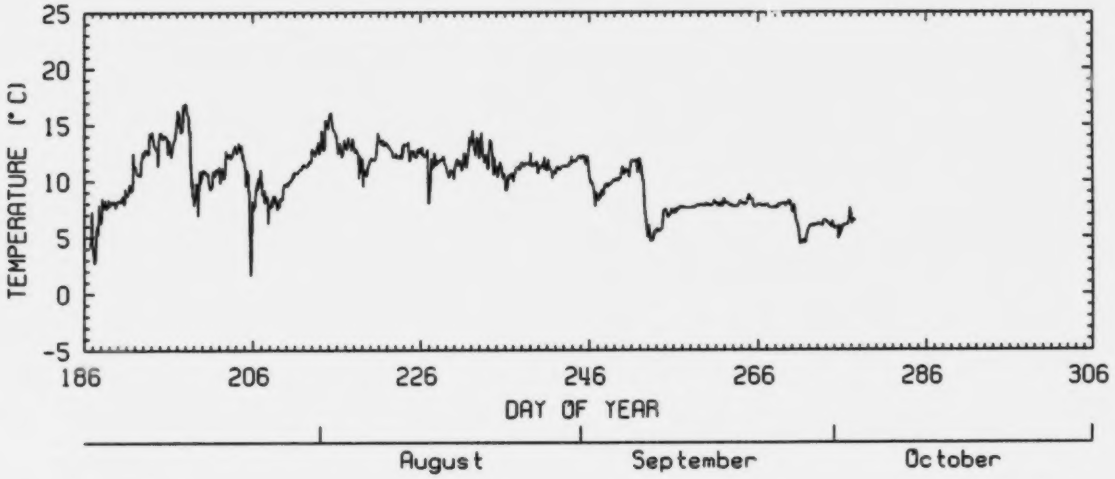
ENGLISH RIVER(SALT WATER)
LONGITUDE



Start: 4-JUL-2004 End: 3-OCT-2004 Inst. S/N:2180

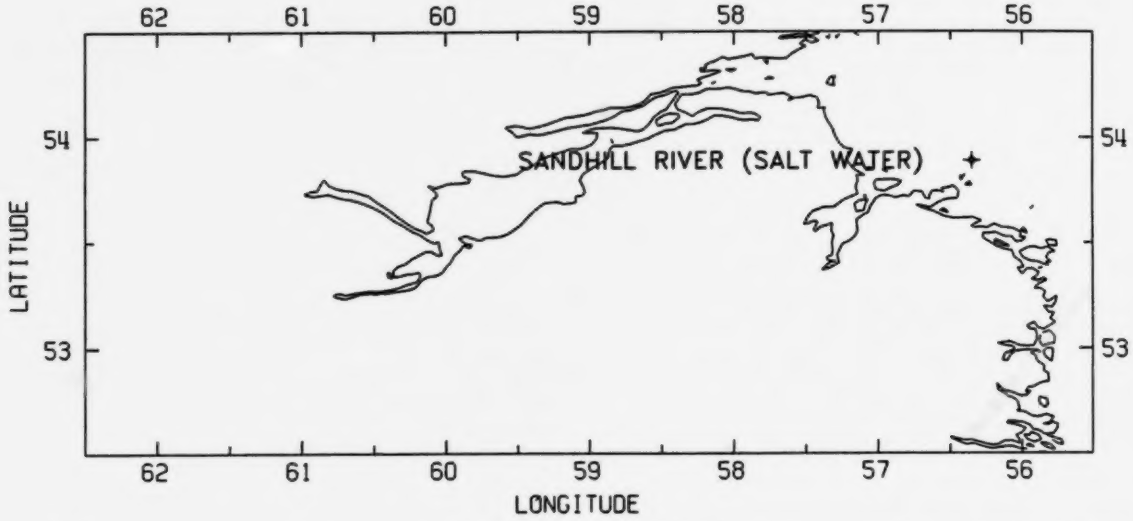
Appendix 3. Time Series Plots and Monthly Statistics from Unit Area 2Jm

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (SALT WATER) (277) 2004

STATION NAME:	SANDHILL RIVER (SALT WATER)
STATION NUMBER:	277
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004352
LATITUDE:	53.89° N
LONGITUDE:	56.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-JUL-2004 15:00 GMT
RECOVERY DATE/TIME:	12-SEP-2004 21:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	6.70	190	13.70	213	10.80	1.77	268.3	168.3	585
AUG-2004	3.20	215	15.20	233	10.88	1.93	337.3	213.3	744
SEP-2004	9.20	246	13.00	245	10.22	0.83	122.6	74.6	286
T.PERIOD	3.20	215	15.20	233	10.73	1.74	728.2	456.2	1615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LATITUDE
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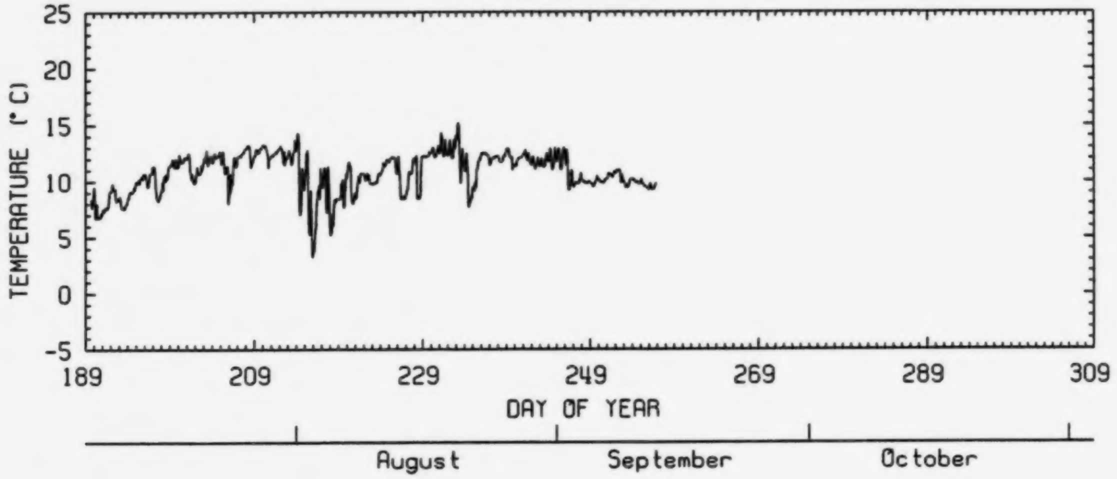
SANDHILL RIVER (SALT WATER)



Start: 7-JUL-2004 End: 12-SEP-2004 Inst. S/N:4352

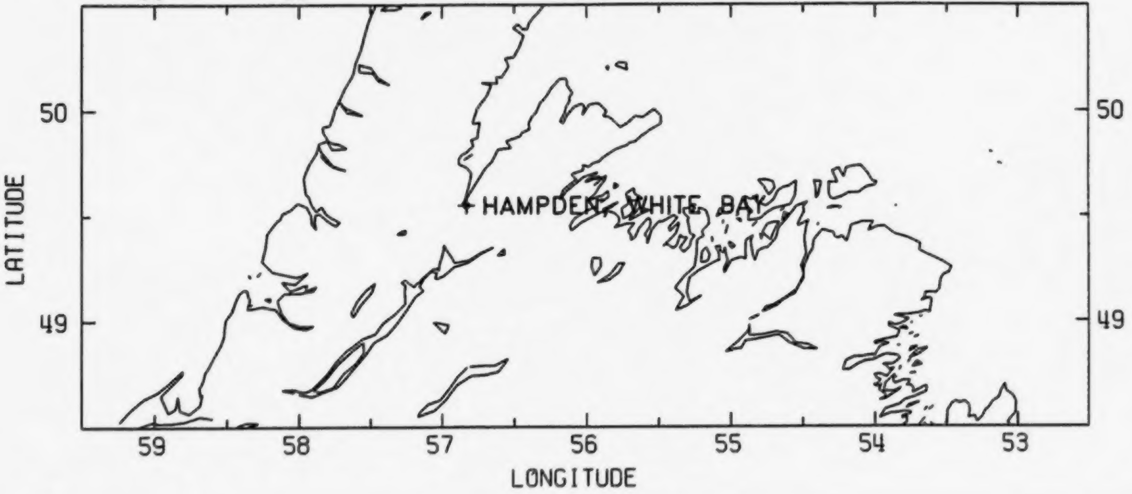
Appendix 4. Time Series Plots and Monthly Statistics from Unit Area 3Kd

THERMOGRAPH DATA SUMMARY: HAMPDEN, WHITE BAY (179) 2004

STATION NAME:	HAMPDEN, WHITE BAY
STATION NUMBER:	179
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003820
LATITUDE:	49.55° N
LONGITUDE:	56.83° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	46 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUN-2004 22:00 GMT
RECOVERY DATE/TIME:	23-NOV-2004 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	1.50	180	6.90	182	3.38	1.32	19.7	0.7	122
JUL-2004	1.20	200	14.30	189	6.87	3.55	213.1	94.5	744
AUG-2004	3.80	218	15.20	232	9.62	3.37	298.3	174.3	744
SEP-2004	2.70	260	15.20	245	10.35	2.60	310.6	190.6	720
OCT-2004	1.20	284	10.50	279	7.09	2.10	219.7	100.3	744
NOV-2004	2.30	312	6.90	306	4.91	1.09	112.7	21.1	543
T.PERIOD	1.20	200	15.20	232	7.76	3.40	1174.1	581.5	3617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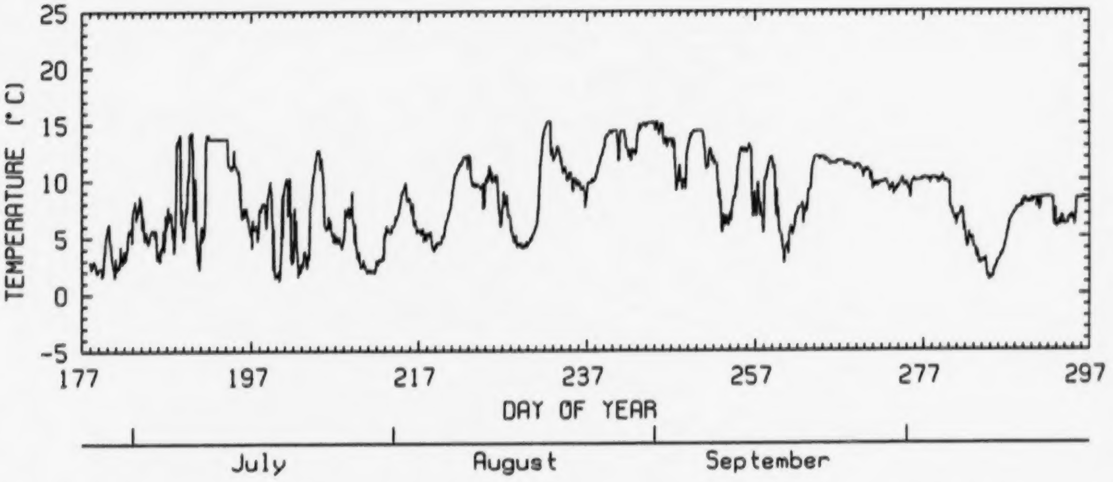
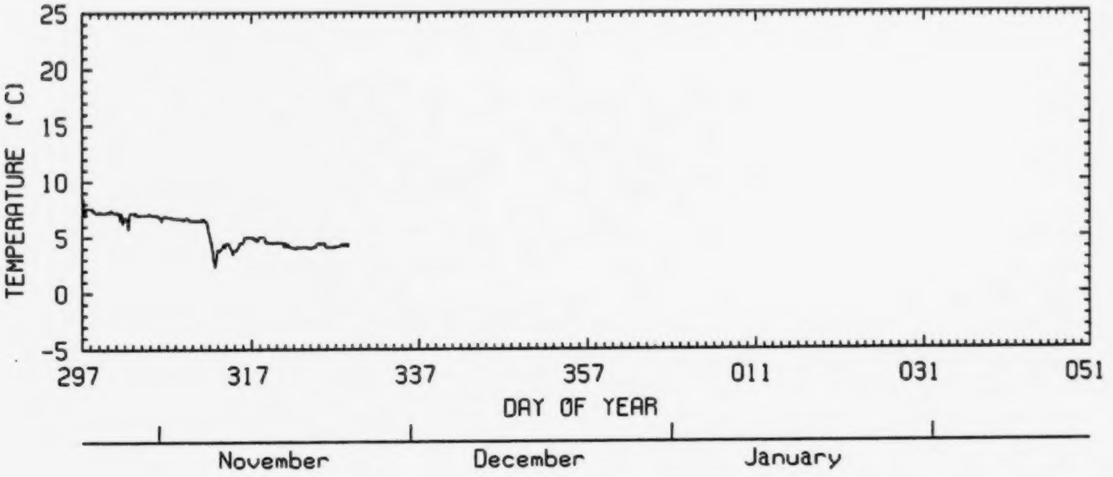
LATITUDE
LONGITUDE
HAMPDEN, WHITE BAY





Start:25-JUN-2004 End:23-NOV-2004 Inst. S/N:3820

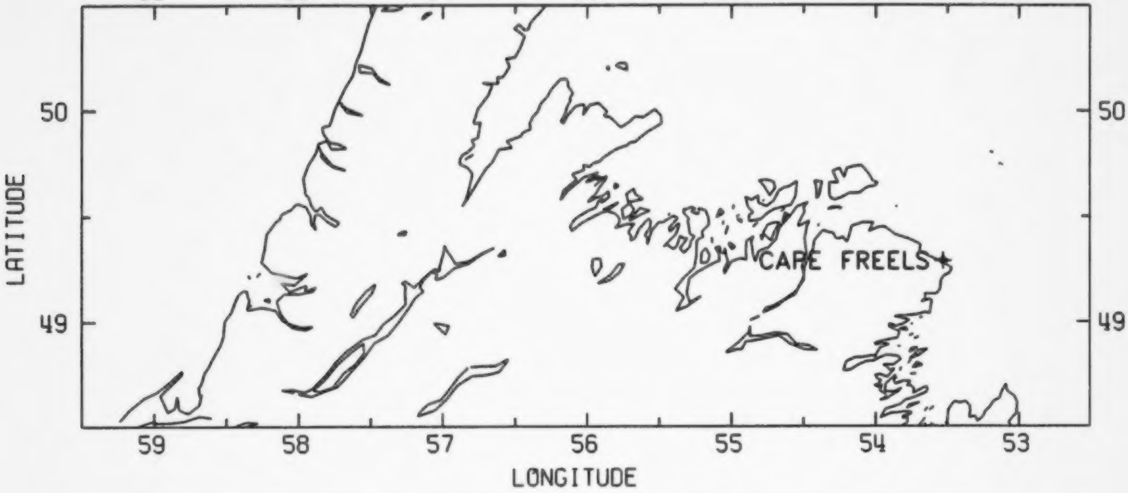
Appendix 5. Time Series Plots and Monthly Statistics from Unit Area 3Ki

THERMOGRAPH DATA SUMMARY: CAPE FREELS (114) 2004

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	006444
LATITUDE:	49.29° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	30 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-JUN-2004 21:00 GMT
RECOVERY DATE/TIME:	15-OCT-2004 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	2.60	158	8.60	182	5.14	1.45	131.9	33.5	603
JUL-2004	4.10	195	16.20	210	9.25	3.39	286.6	162.6	744
AUG-2004	7.40	244	18.00	218	15.69	1.61	486.3	362.3	744
SEP-2004	6.20	245	13.90	247	12.32	1.44	369.7	249.7	720
OCT-2004	7.00	288	10.80	275	8.99	0.90	134.6	74.6	354
T.PERIOD	2.60	158	18.00	218	10.65	4.18	1409.2	882.7	3165



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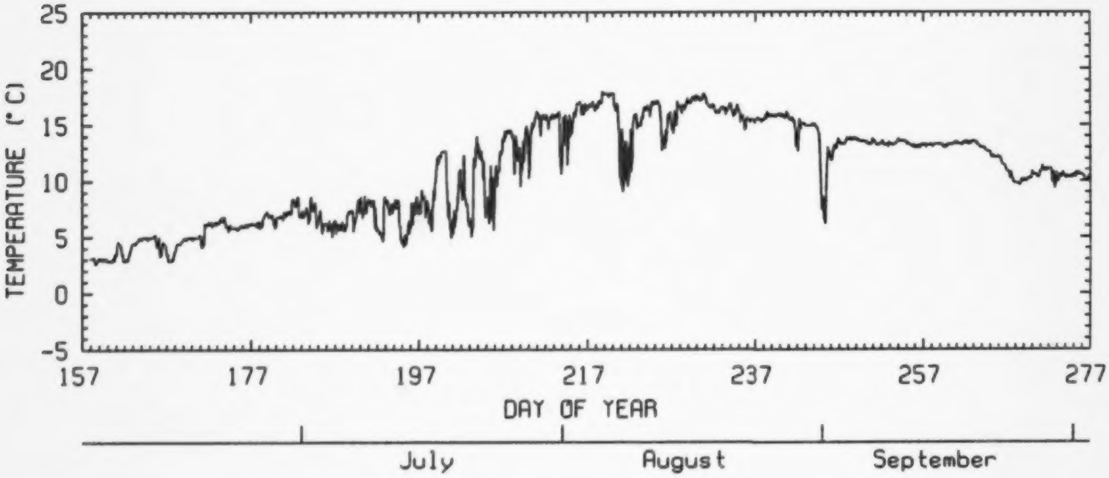
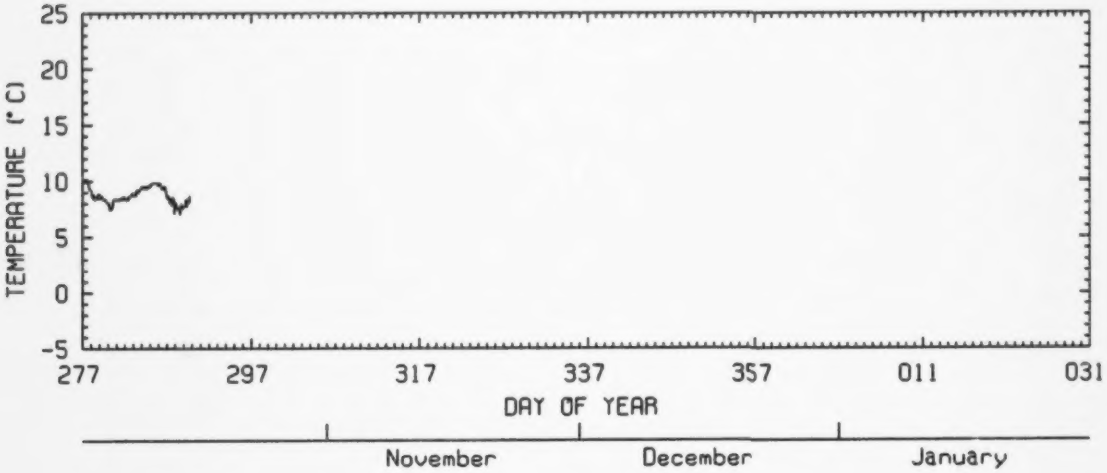
LATITUDE
LONGITUDE
CAPE FREELS





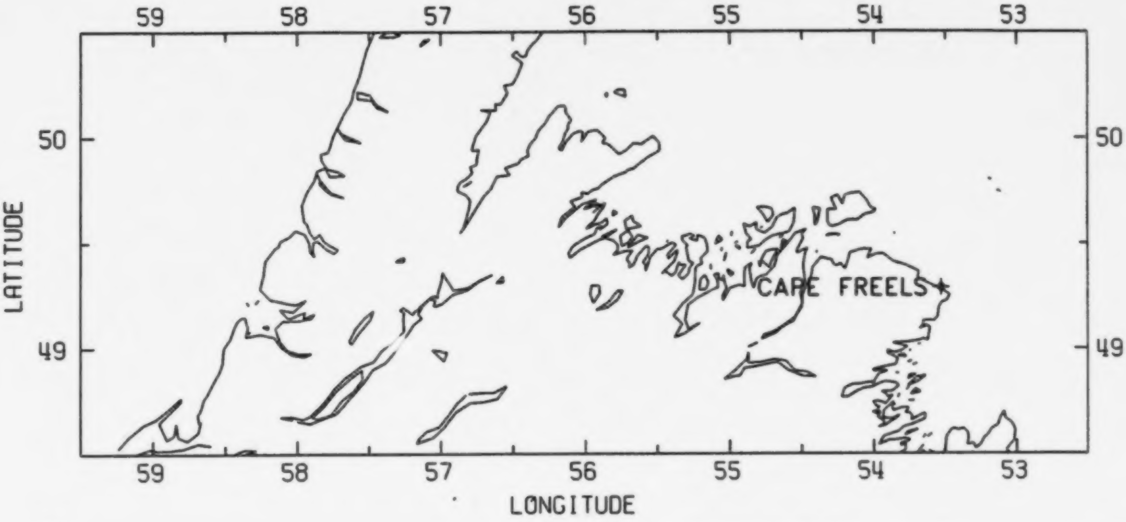
Start: 5-JUN-2004 End: 15-OCT-2004 Inst. S/N: 6444

THERMOGRAPH DATA SUMMARY: CAPE FREELS (114) 2004

STATION NAME:	CAPE FREELS
STATION NUMBER:	114
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007419
LATITUDE:	49.29° N
LONGITUDE:	53.53° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	30 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	03-JUN-2004 22:00 GMT
RECOVERY DATE/TIME:	15-OCT-2004 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	2.30	156	7.10	180	4.72	1.32	130.9	27.4	650
JUL-2004	3.20	199	16.20	212	5.90	2.38	182.8	58.9	744
AUG-2004	4.30	221	18.00	218	13.34	3.44	413.7	289.7	744
SEP-2004	5.00	245	14.20	247	12.44	1.71	373.1	253.1	720
OCT-2004	5.30	288	10.90	275	8.55	1.37	128.1	68.1	354
T.PERIOD	2.30	156	18.00	218	9.14	4.27	1228.6	697.3	3212



CAPE FREELS
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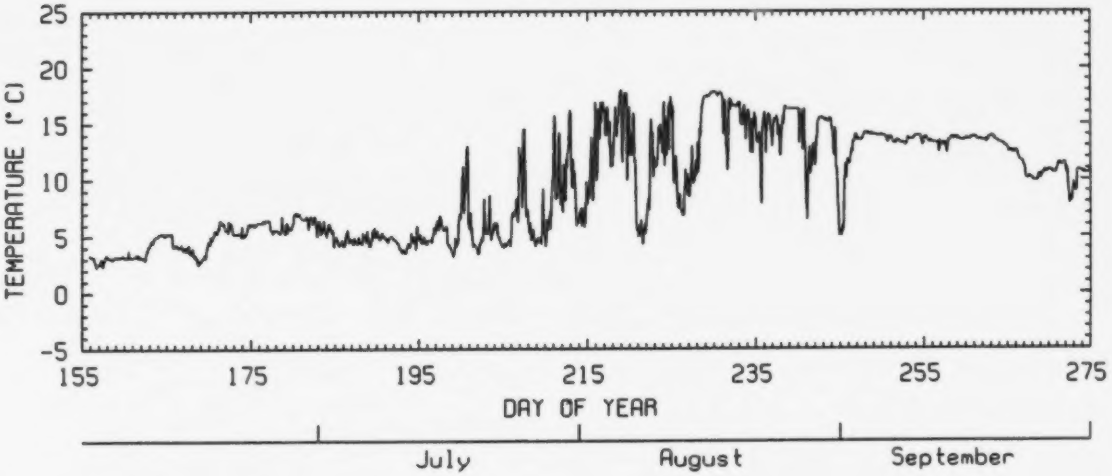
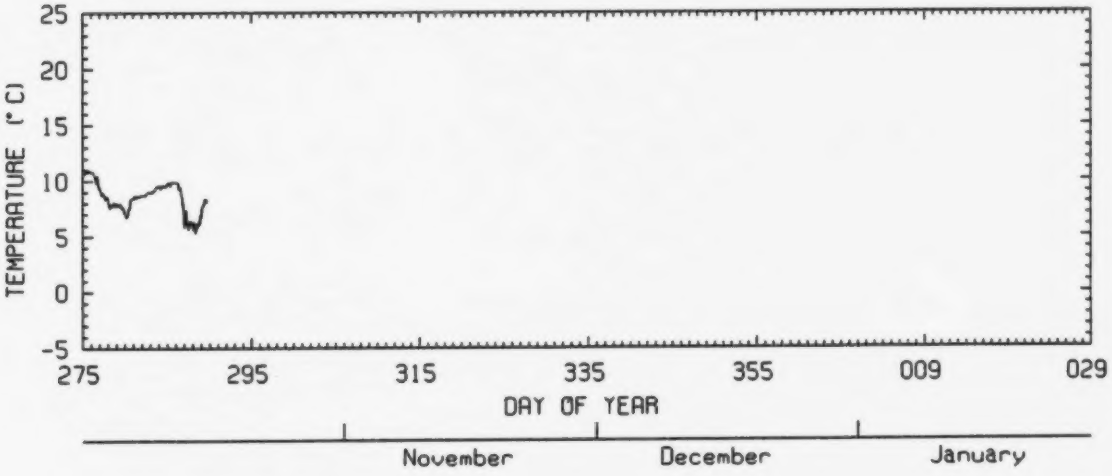




Start: 3-JUN-2004 End: 15-OCT-2004 Inst. S/N: 7419

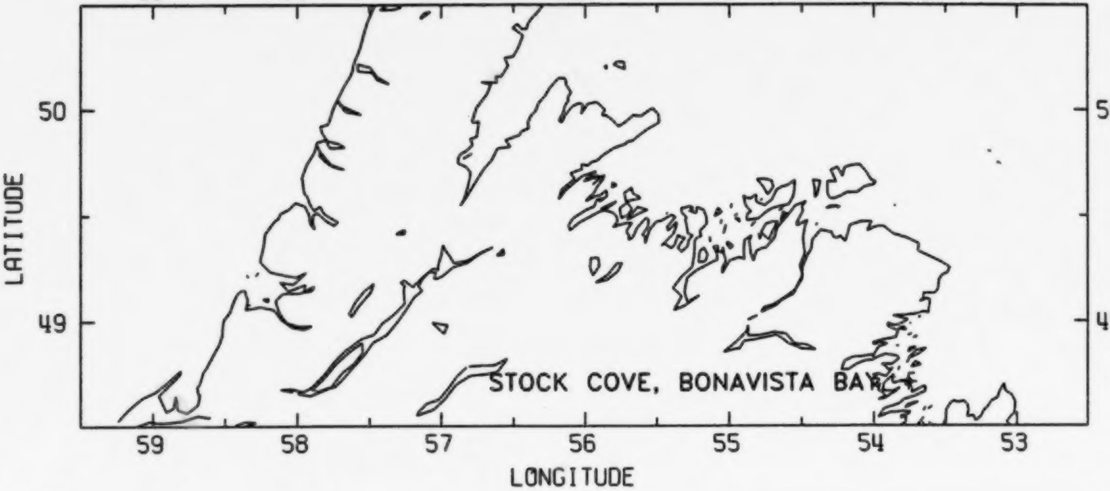
Appendix 6. Time Series Plots and Monthly Statistics from Unit Area 3La

THERMOGRAPH DATA SUMMARY: STOCK COVE, BONAVISTA BAY (110) 2004

STATION NAME:	STOCK COVE, BONAVISTA BAY
STATION NUMBER:	110
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007928
LATITUDE:	48.71° N
LONGITUDE:	53.76° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	23-MAY-2004 14:00 GMT
RECOVERY DATE/TIME:	09-OCT-2004 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	0.50	145	5.50	150	3.62	1.03	31.2	0.9	202
JUN-2004	1.30	168	9.35	181	5.23	1.28	157.0	40.6	720
JUL-2004	2.95	206	14.60	213	7.85	2.17	243.2	119.2	744
AUG-2004	6.55	214	17.30	231	14.02	2.13	434.7	310.7	744
SEP-2004	12.15	272	16.25	245	13.82	0.97	414.7	294.7	720
OCT-2004	9.30	280	12.50	275	11.73	0.52	105.5	69.5	212
T.PERIOD	0.50	145	17.30	231	9.94	4.25	1386.4	835.7	3342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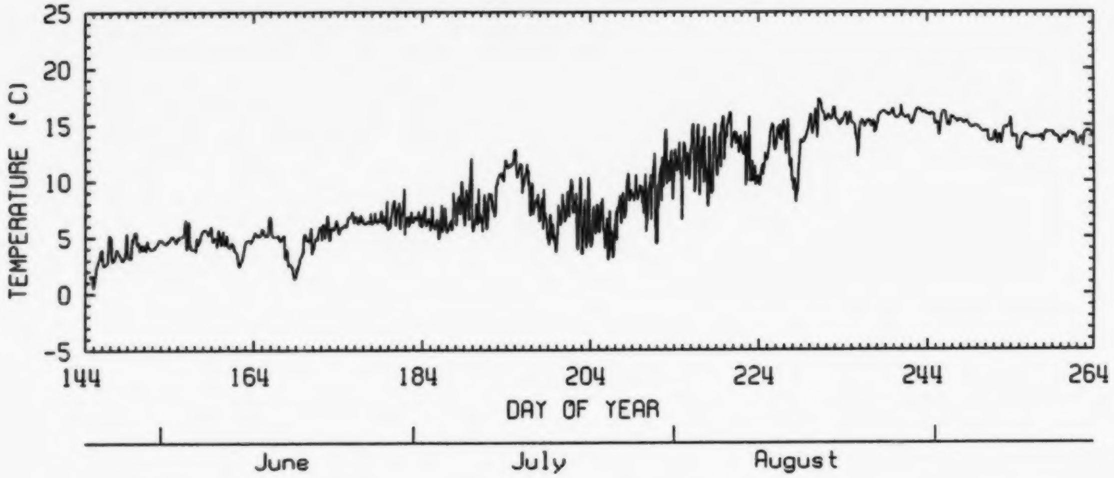
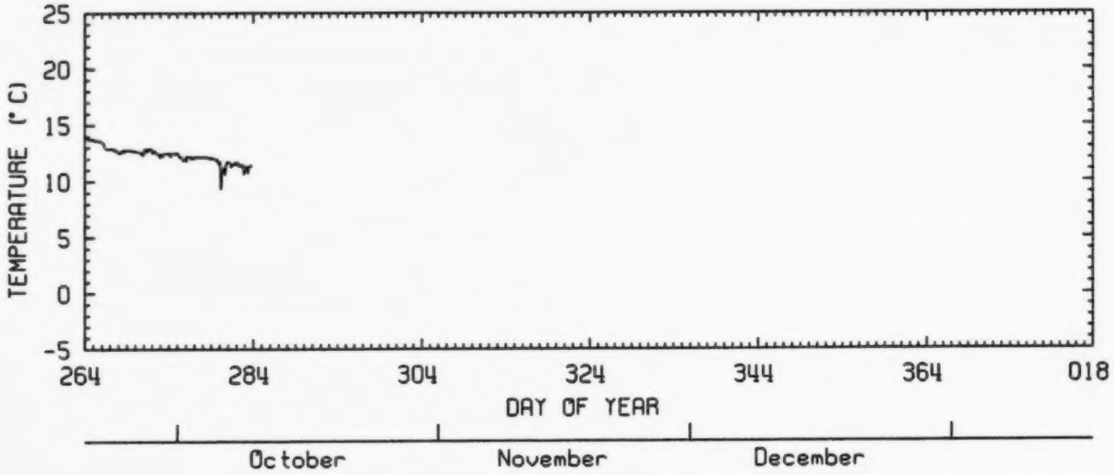
LATITUDE
LONGITUDE
STOCK COVE, BONAVISTA BAY





Start:23-MAY-2004 End: 9-OCT-2004 Inst. S/N:7928

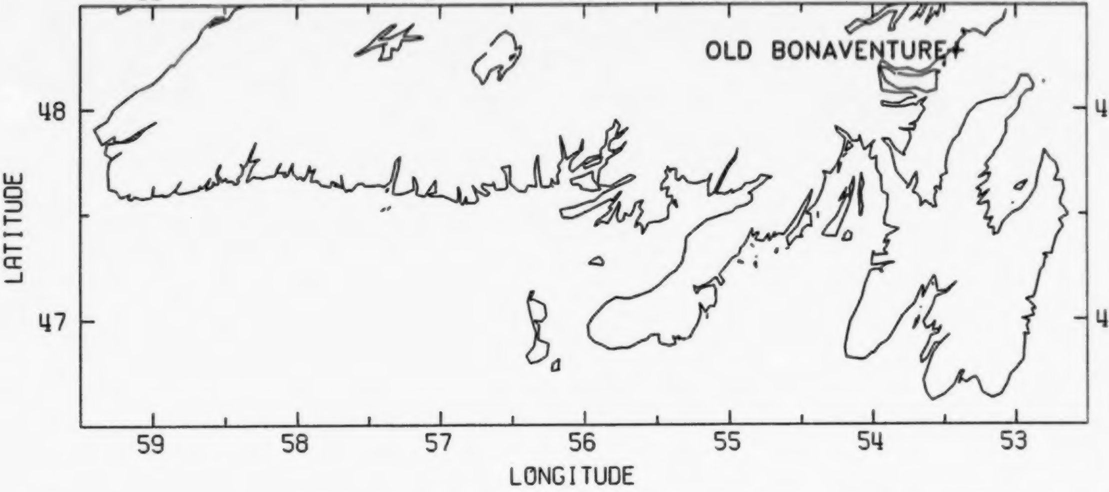
Appendix 7. Time Series Plots and Monthly Statistics from Unit Area 3Lb

THERMOGRAPH DATA SUMMARY: OLD BONAVENTURE (100) 2004

STATION NAME:	OLD BONAVENTURE
STATION NUMBER:	100
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004348
LATITUDE:	48.28° N
LONGITUDE:	53.42° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2004 19:00 GMT
RECOVERY DATE/TIME:	24-OCT-2004 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	2.40	148	4.60	149	3.57	0.54	20.9	0.0	125
JUN-2004	1.40	163	9.40	182	4.54	1.46	136.2	26.0	720
JUL-2004	0.60	207	11.40	195	5.34	3.22	165.5	63.1	744
AUG-2004	1.10	216	15.80	231	7.92	4.53	245.4	133.9	744
SEP-2004	8.40	247	14.30	245	11.65	1.18	349.4	229.4	720
OCT-2004	7.30	285	11.00	276	10.19	0.75	244.4	148.4	565
T.PERIOD	0.60	207	15.80	231	7.66	3.87	1161.8	600.8	3618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OLD BONAVENTURE+
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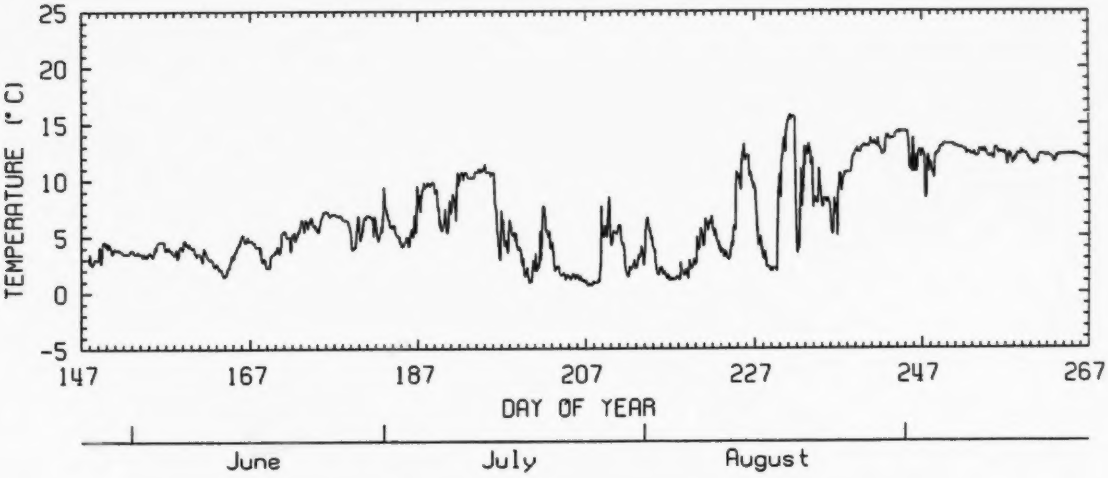
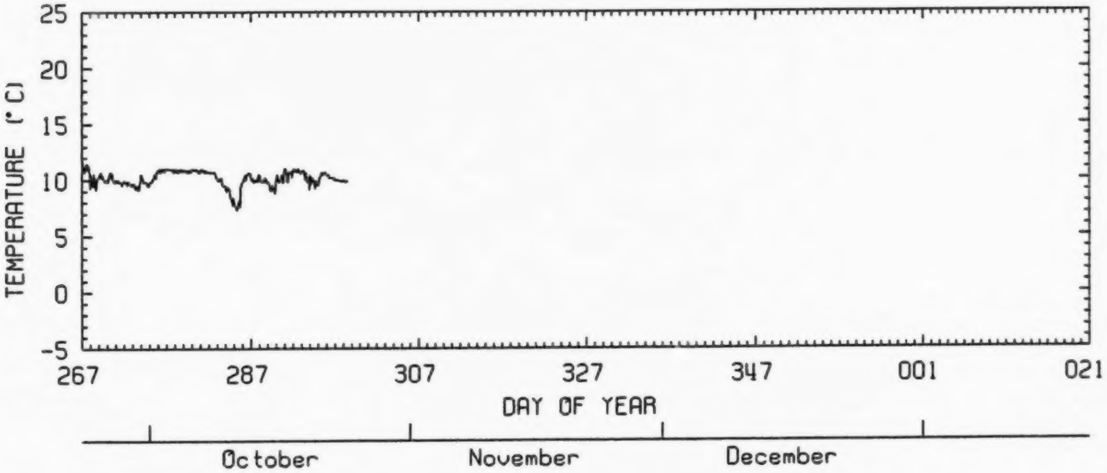




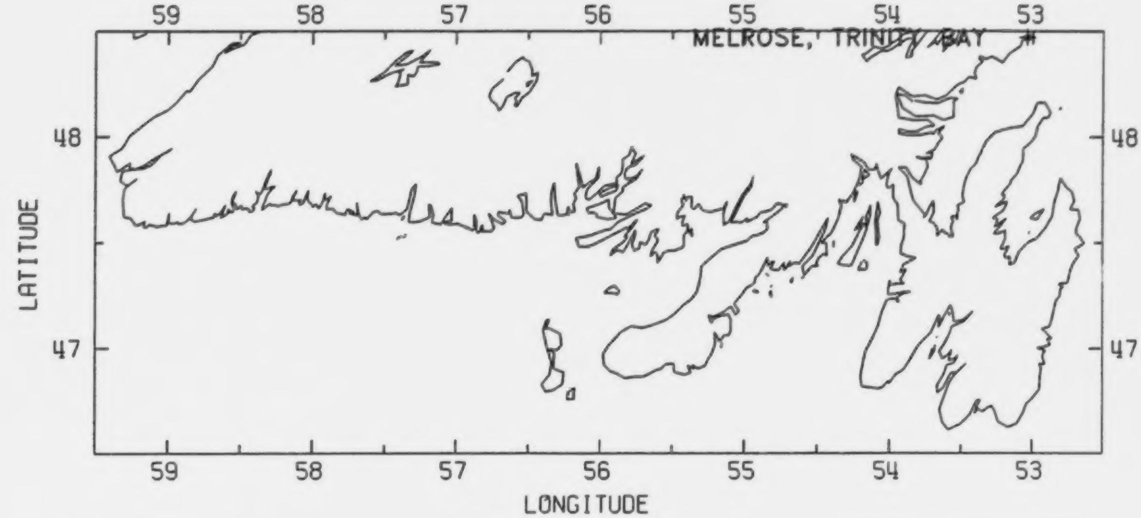
Start:26-MAY-2004 End:24-OCT-2004 Inst. S/N:4348

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2004

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003827
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	5 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-MAY-2004 20:00 GMT
RECOVERY DATE/TIME:	25-OCT-2004 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	2.60	146	4.00	150	3.33	0.44	22.7	0.0	148
JUN-2004	1.60	168	7.20	182	4.79	1.45	143.8	31.5	720
JUL-2004	1.10	206	14.50	207	7.79	3.50	241.5	120.6	744
AUG-2004	2.20	228	17.80	229	12.33	3.57	382.2	258.2	744
SEP-2004	5.00	245	14.40	245	12.04	1.50	361.1	241.1	720
OCT-2004	5.40	292	11.30	275	9.41	1.29	235.1	135.1	593
T.PERIOD	1.10	206	17.80	229	9.04	3.92	1386.3	786.5	3669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MELROSE, TRINITY BAY
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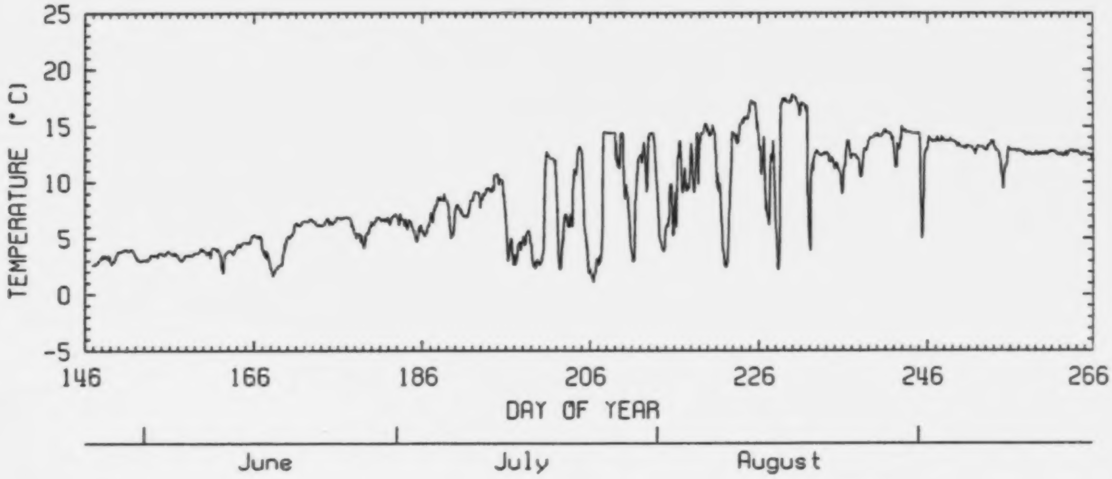
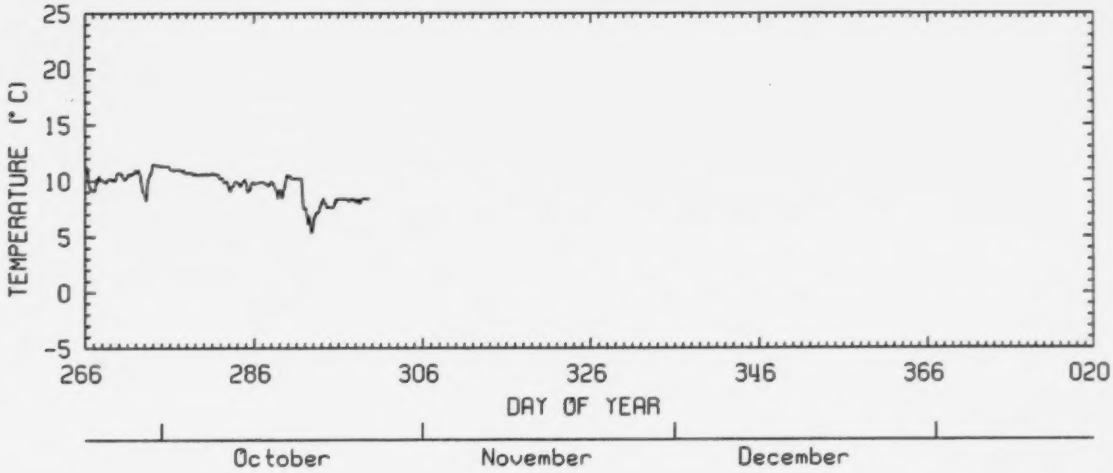
LATITUDE
LONGITUDE





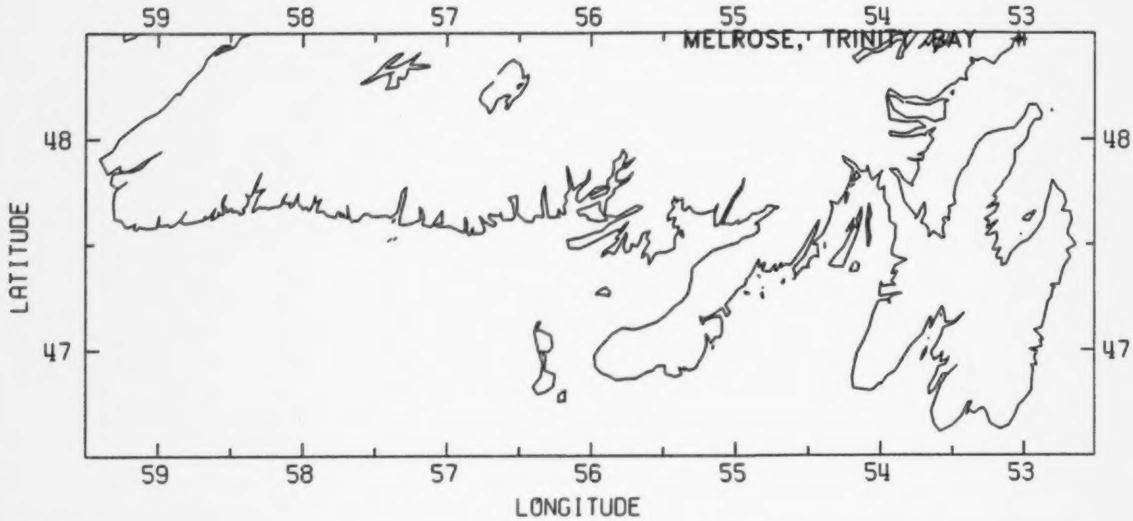
Start:25-MAY-2004 End:25-OCT-2004 Inst. S/N:3827

THERMOGRAPH DATA SUMMARY: MELROSE, TRINITY BAY (102) 2004

STATION NAME:	MELROSE, TRINITY BAY
STATION NUMBER:	102
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003864
LATITUDE:	48.47° N
LONGITUDE:	53.04° W
INSTRUMENT DEPTH:	15 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-MAY-2004 20:00 GMT
RECOVERY DATE/TIME:	25-OCT-2004 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	1.90	147	4.10	151	3.09	0.59	21.2	0.0	148
JUN-2004	1.10	168	6.90	176	4.51	1.46	135.2	26.3	720
JUL-2004	0.80	206	14.70	207	5.97	3.17	185.1	69.3	744
AUG-2004	1.60	222	17.80	229	10.49	4.15	325.2	201.5	744
SEP-2004	4.10	245	14.00	247	11.83	1.64	354.9	234.9	720
OCT-2004	4.70	292	11.40	275	9.10	1.53	227.1	127.1	593
T.PERIOD	0.80	206	17.80	229	8.14	3.92	1248.8	659.2	3669


MELROSE, TRINITY BAY
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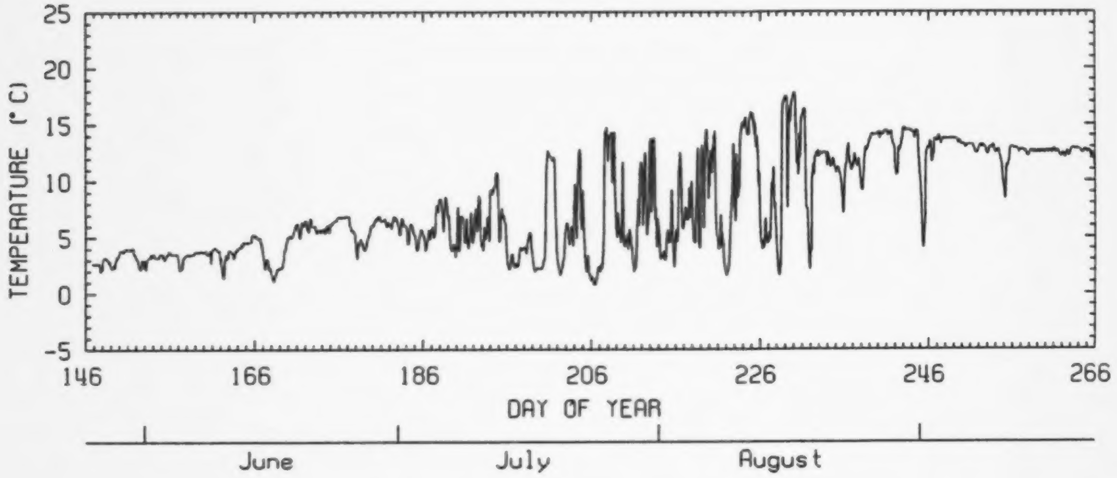
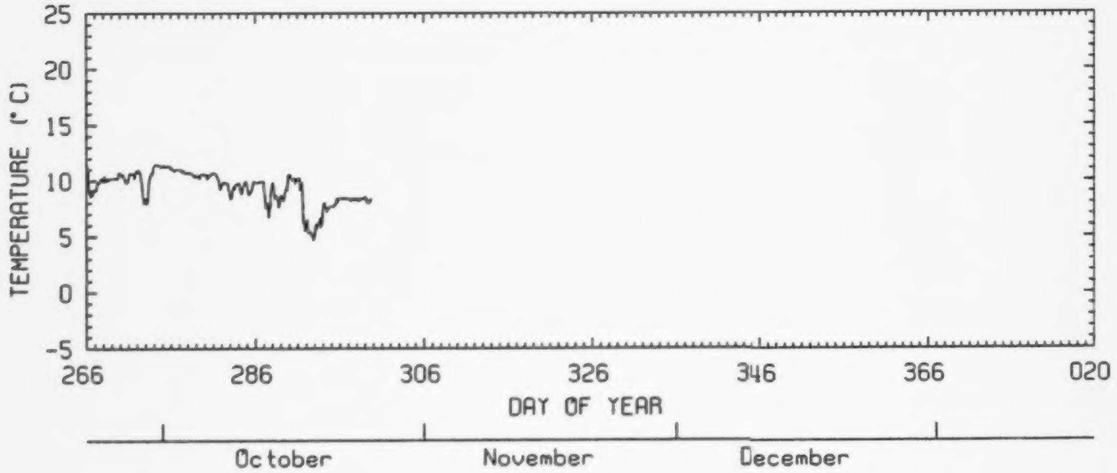




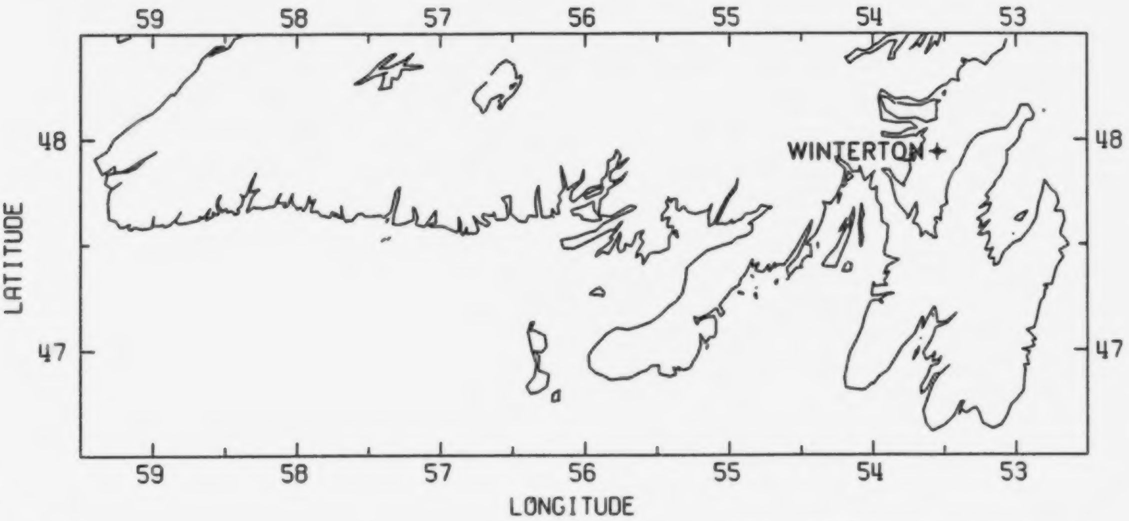
Start:25-MAY-2004 End:25-OCT-2004 Inst. S/N:3864

THERMOGRAPH DATA SUMMARY: WINTERTON (189) 2004

STATION NAME:	WINTERTON
STATION NUMBER:	189
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003812
LATITUDE:	47.94° N
LONGITUDE:	53.55° W
INSTRUMENT DEPTH:	7 m
WATER DEPTH:	13 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	19-MAY-2004 11:00 GMT
RECOVERY DATE/TIME:	25-SEP-2004 09:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	1.40	150	5.20	152	3.44	0.78	44.8	0.0	301
JUN-2004	3.20	159	10.00	182	6.33	1.37	190.0	70.0	720
JUL-2004	1.80	188	15.20	206	11.03	2.74	342.0	218.2	744
AUG-2004	1.90	240	14.10	235	11.06	2.14	342.9	218.9	744
SEP-2004	1.90	264	14.30	246	12.79	1.85	319.4	219.4	586
T.PERIOD	1.40	150	15.20	206	9.54	3.63	1239.1	726.5	3095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WINTERTON
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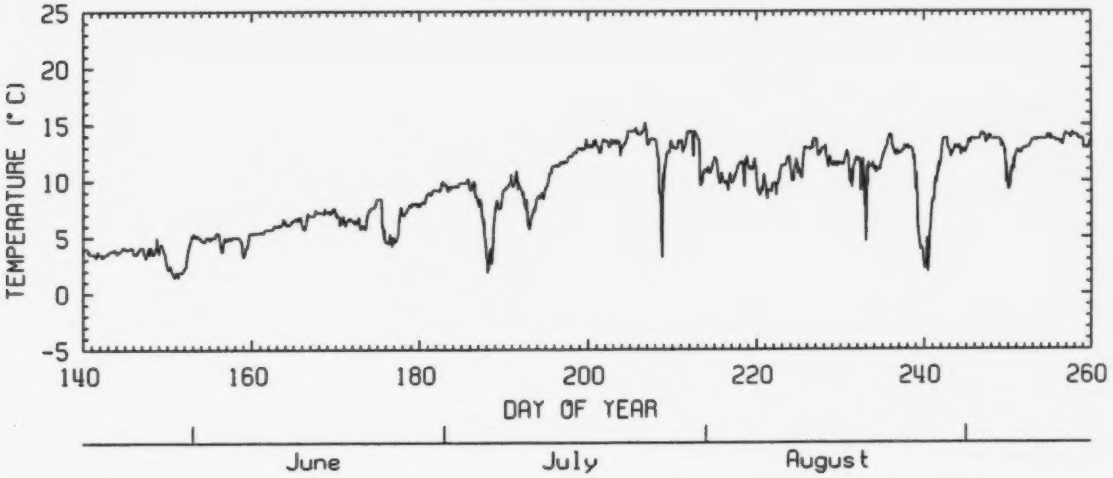
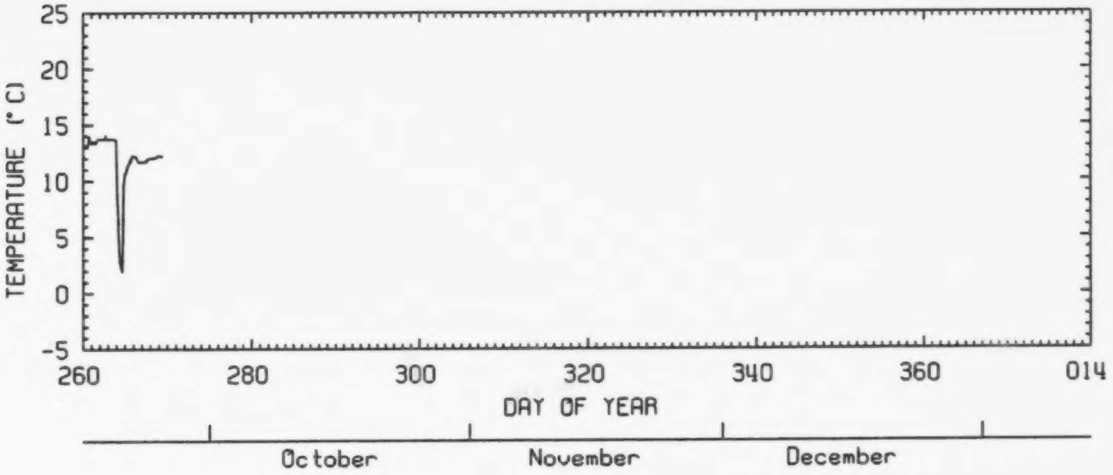




Start:19-MAY-2004 End:25-SEP-2004 Inst. S/N:3812

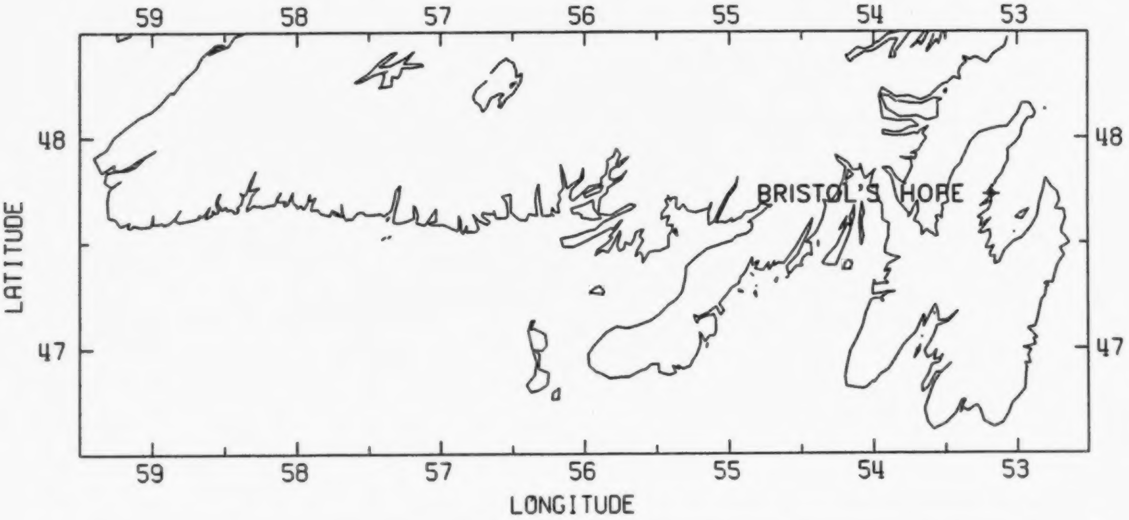
Appendix 8. Time Series Plots and Monthly Statistics from Unit Area 3Lf

THERMOGRAPH DATA SUMMARY: BRISTOL'S HOPE (101) 2004

STATION NAME:	BRISTOL'S HOPE
STATION NUMBER:	101
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	004019
LATITUDE:	47.73° N
LONGITUDE:	53.18° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	20 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-MAY-2004 11:00 GMT
RECOVERY DATE/TIME:	07-NOV-2004 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	1.40	143	5.00	149	3.42	1.00	37.1	1.6	253
JUN-2004	1.60	163	9.00	182	5.21	1.51	156.2	39.7	720
JUL-2004	4.10	206	13.60	208	9.09	1.90	281.8	157.8	744
AUG-2004	1.10	235	14.90	242	9.64	3.53	298.9	176.7	744
SEP-2004	8.90	260	13.50	245	12.11	0.90	363.3	243.3	720
OCT-2004	8.90	305	11.70	276	10.60	0.64	328.6	204.6	744
NOV-2004	5.60	312	9.00	306	8.08	0.98	55.5	27.5	157
T.PERIOD	1.10	235	14.90	242	8.92	3.22	1521.5	851.3	4082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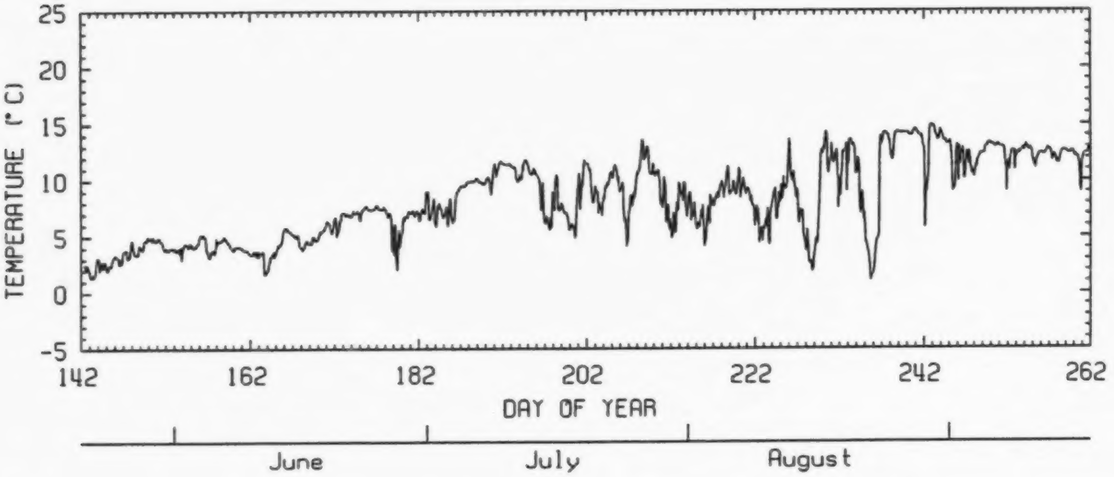
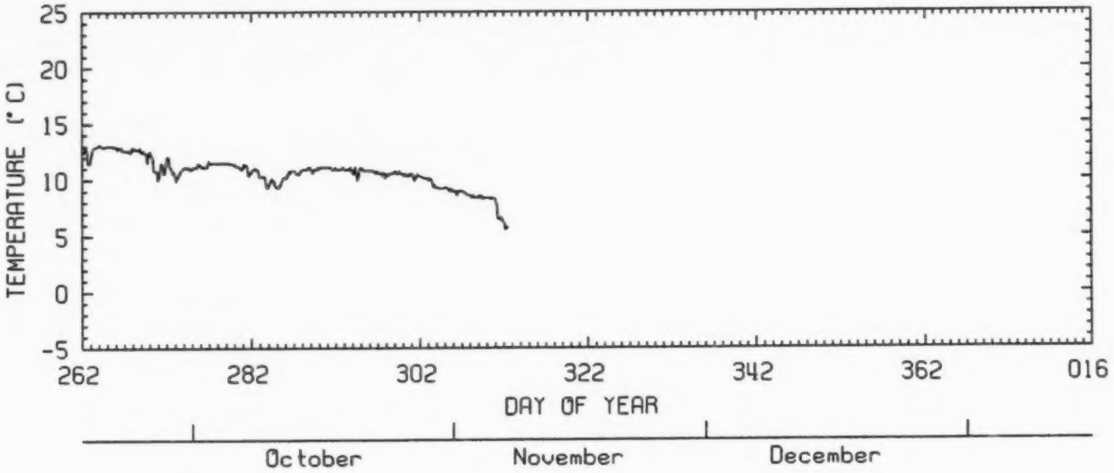
LATITUDE
BRISTOL'S HOPE
LONGITUDE





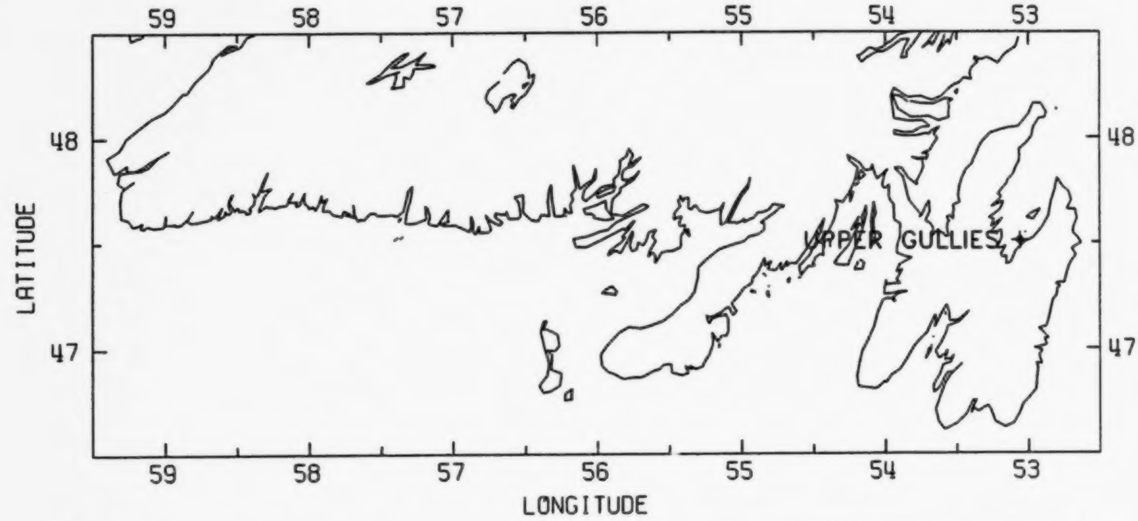
Start:21-MAY-2004 End: 7-NOV-2004 Inst. S/N:4019

THERMOGRAPH DATA SUMMARY: UPPER GULLIES (106) 2004

STATION NAME:	UPPER GULLIES
STATION NUMBER:	106
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003869
LATITUDE:	47.51° N
LONGITUDE:	53.06° W
INSTRUMENT DEPTH:	10 m
WATER DEPTH:	16 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2004 13:00 GMT
RECOVERY DATE/TIME:	28-NOV-2004 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	3.20	150	5.00	152	3.98	0.54	23.8	0.9	131
JUN-2004	4.60	156	10.10	182	6.94	1.39	208.1	88.1	720
JUL-2004	6.20	203	17.10	213	10.83	1.96	335.7	211.7	744
AUG-2004	3.30	236	16.70	214	10.48	3.41	325.0	201.0	744
SEP-2004	12.70	268	15.10	245	13.79	0.51	413.7	293.7	720
OCT-2004	9.70	304	13.00	275	11.41	0.76	353.6	229.7	744
NOV-2004	4.70	332	10.20	306	7.68	1.14	214.4	102.4	664
T.PERIOD	3.20	150	17.10	213	10.05	3.06	1874.4	1127.5	4467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LATITUDE
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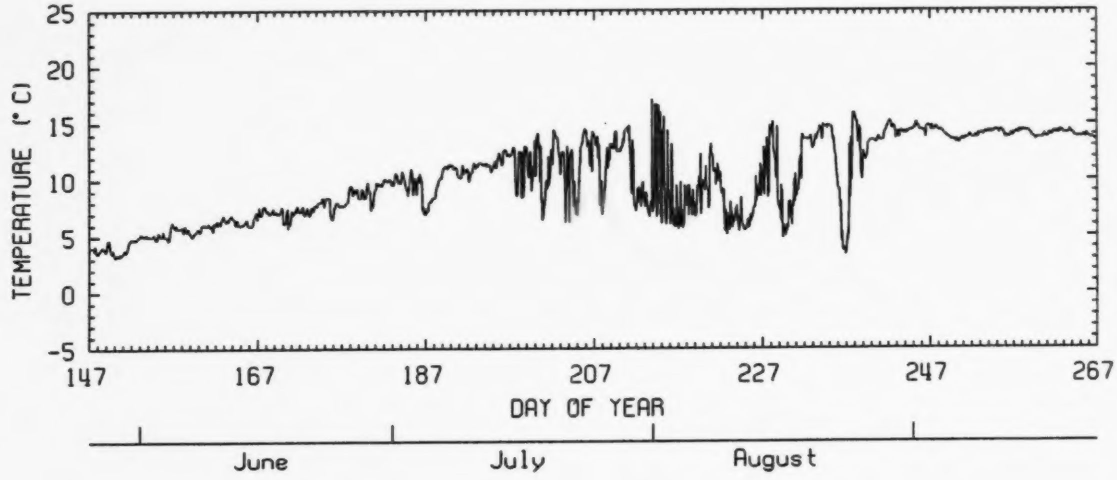
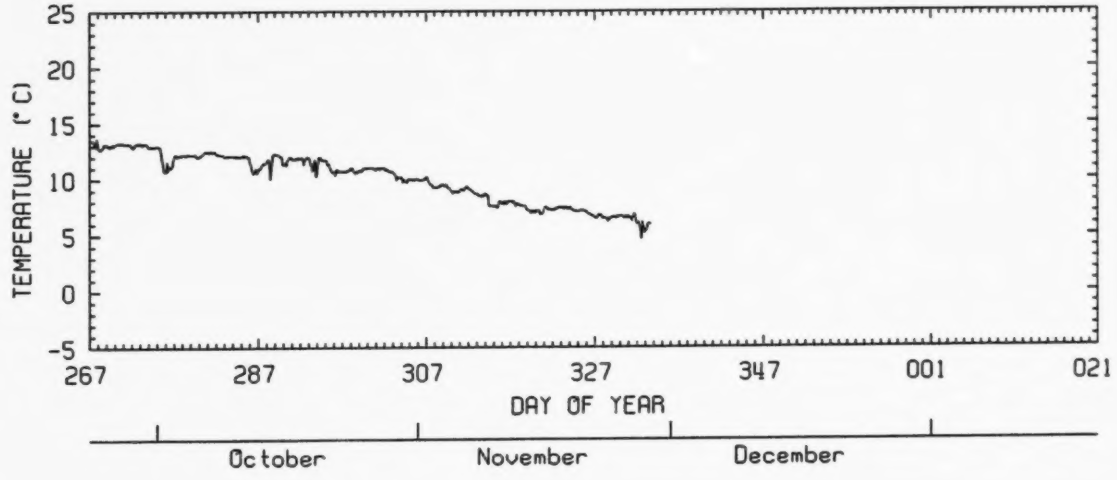
UPPER GULLIES





Start:26-MAY-2004 End:28-NOV-2004 Inst. S/N:3869

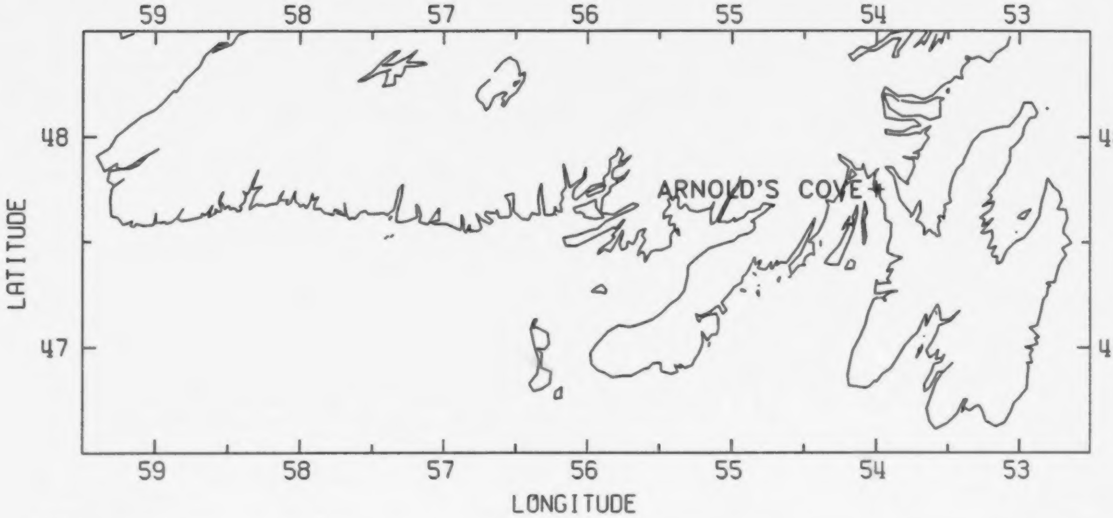
Appendix 9. Time Series Plots and Monthly Statistics from Unit Area 3PSc

THERMOGRAPH DATA SUMMARY: ARNOLD'S COVE (127) 2004

STATION NAME:	ARNOLD'S COVE
STATION NUMBER:	127
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007942
LATITUDE:	47.75° N
LONGITUDE:	54.00° W
INSTRUMENT DEPTH:	9 m
WATER DEPTH:	9 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	22-MAY-2004 16:00 GMT
RECOVERY DATE/TIME:	03-NOV-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	3.10	151	7.40	148	5.08	1.15	51.1	11.9	224
JUN-2004	4.20	153	9.90	181	6.93	1.45	207.8	87.8	720
JUL-2004	7.55	188	17.25	213	12.44	2.42	385.7	261.7	744
AUG-2004	3.45	232	19.75	228	16.14	3.86	500.5	376.5	744
SEP-2004	1.55	266	16.60	245	10.59	3.99	317.7	200.7	720
OCT-2004	3.15	304	11.45	288	9.57	1.95	296.7	173.0	744
NOV-2004	4.95	308	8.25	306	6.98	1.04	20.3	8.3	62
T.PERIOD	1.55	266	19.75	228	10.76	4.36	1779.9	1120.1	3958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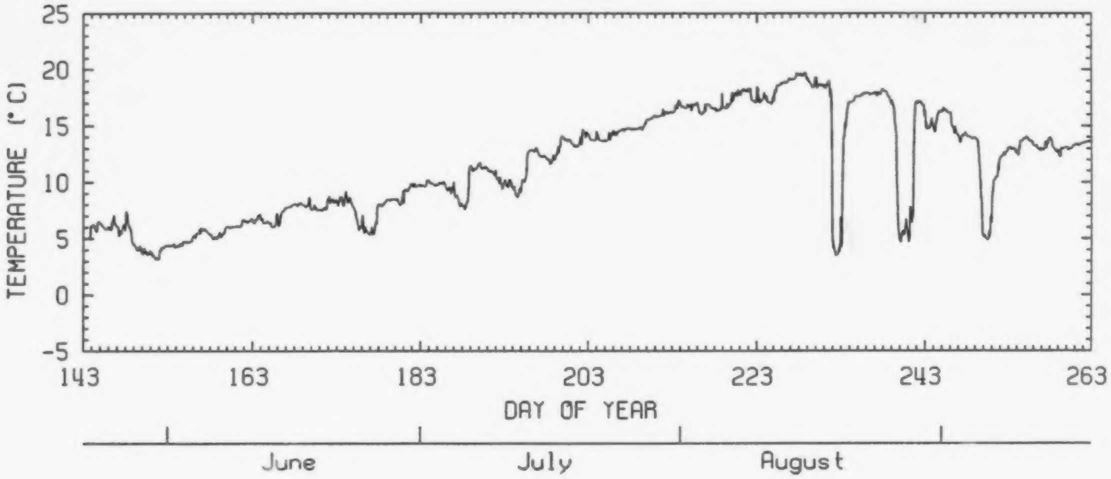
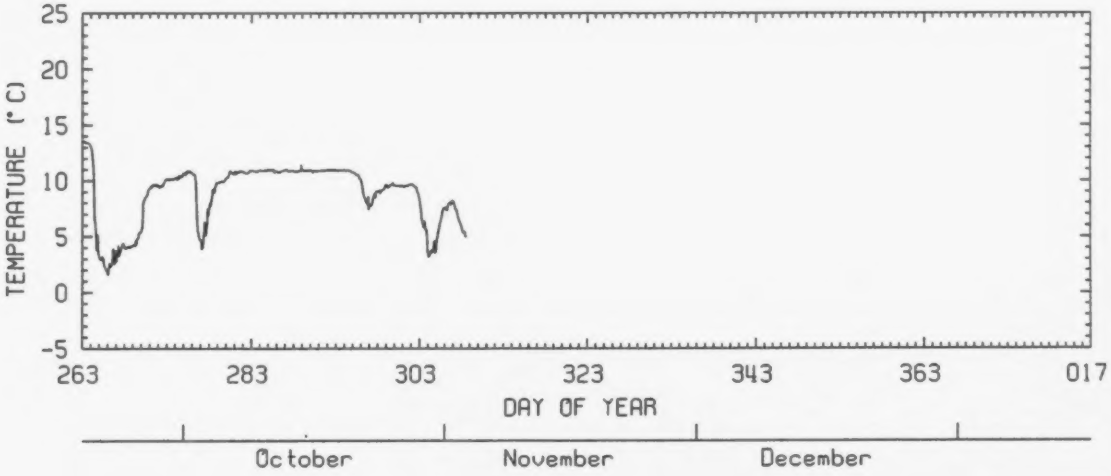
LATITUDE
LONGITUDE
ARNOLD'S COVE





Start:22-MAY-2004 End: 3-NOV-2004 Inst. S/N:7942

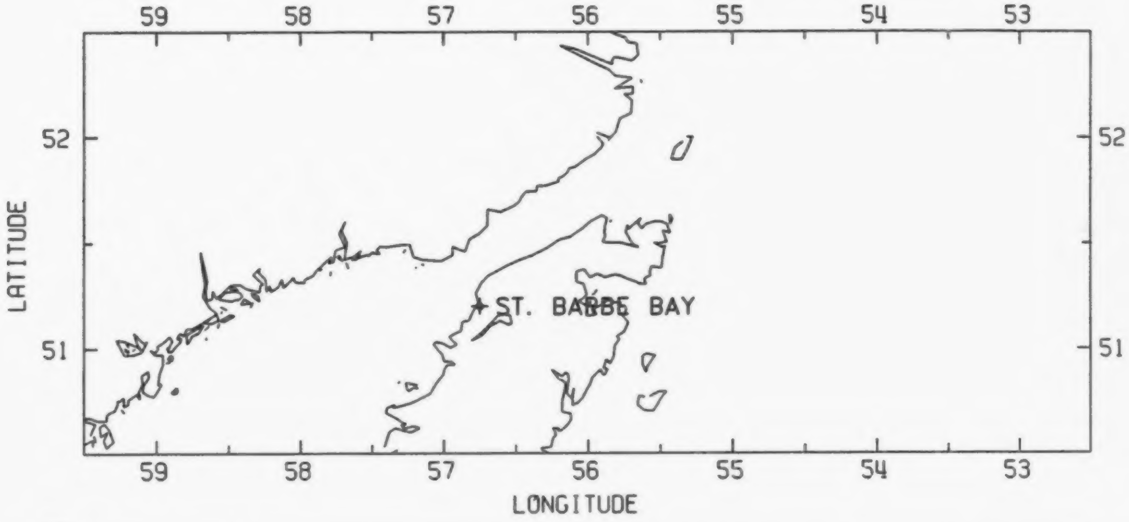
Appendix 10. Time Series Plots and Monthly Statistics from Unit Area 4Ra

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2004

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	006788
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	5 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2004 16:00 GMT
RECOVERY DATE/TIME:	14-SEP-2004 18:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	2.35	152	5.15	147	3.93	0.67	24.3	1.8	128
JUN-2004	-0.15	158	8.05	182	3.65	1.70	109.6	16.6	720
JUL-2004	3.60	194	15.75	211	11.18	3.04	346.7	222.7	744
AUG-2004	14.85	215	18.80	230	17.11	0.91	530.3	406.3	744
SEP-2004	13.05	258	17.10	245	14.85	0.88	207.7	151.7	331
T.PERIOD	-0.15	158	18.80	230	10.91	5.74	1218.6	799.1	2667



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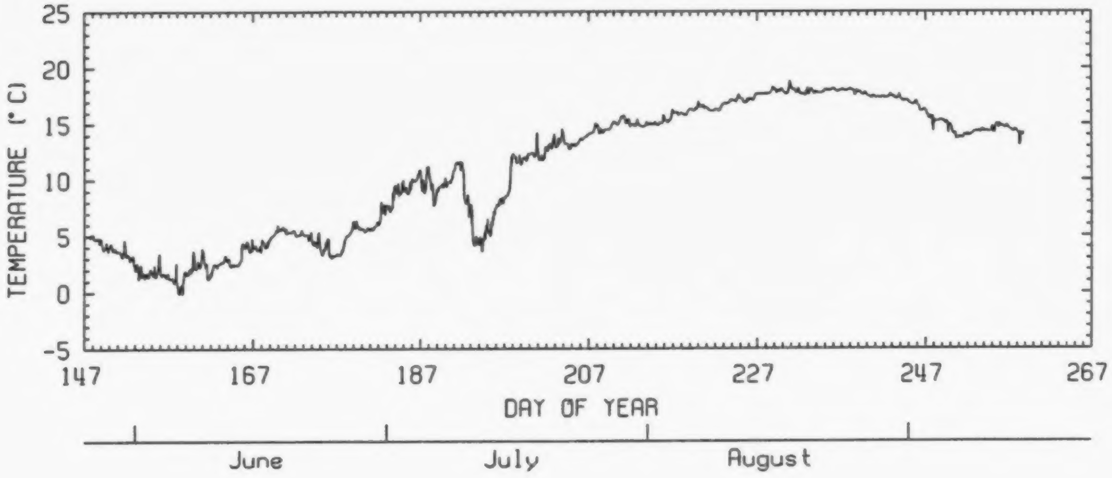
LATITUDE
LONGITUDE
ST. BARBE BAY



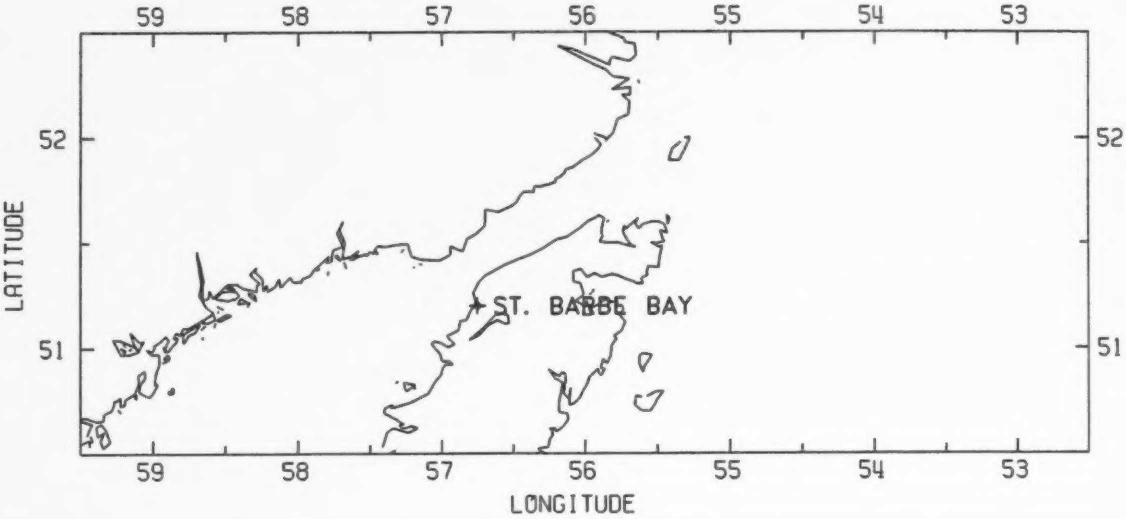
Start: 26-MAY-2004 End: 14-SEP-2004 Inst. S/N:6788

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2004

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007818
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	6 m
WATER DEPTH:	6 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2004 17:00 GMT
RECOVERY DATE/TIME:	14-SEP-2004 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	1.95	152	4.70	148	3.45	0.62	21.4	0.7	127
JUN-2004	-0.25	158	7.00	182	3.21	1.78	96.2	12.8	720
JUL-2004	3.45	194	15.65	210	10.77	3.17	333.9	209.9	744
AUG-2004	14.75	215	18.10	235	16.99	0.90	526.6	402.6	744
SEP-2004	13.50	250	16.85	245	14.82	0.89	207.3	151.3	330
T.PERIOD	-0.25	158	18.10	235	10.62	5.90	1185.5	777.2	2665



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LATITUDE
ST. BARBE BAY
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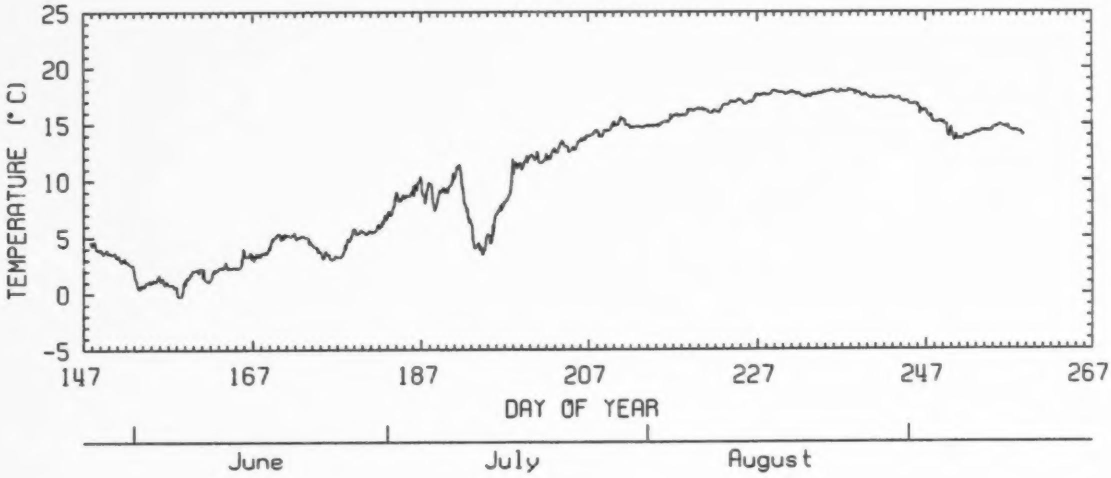


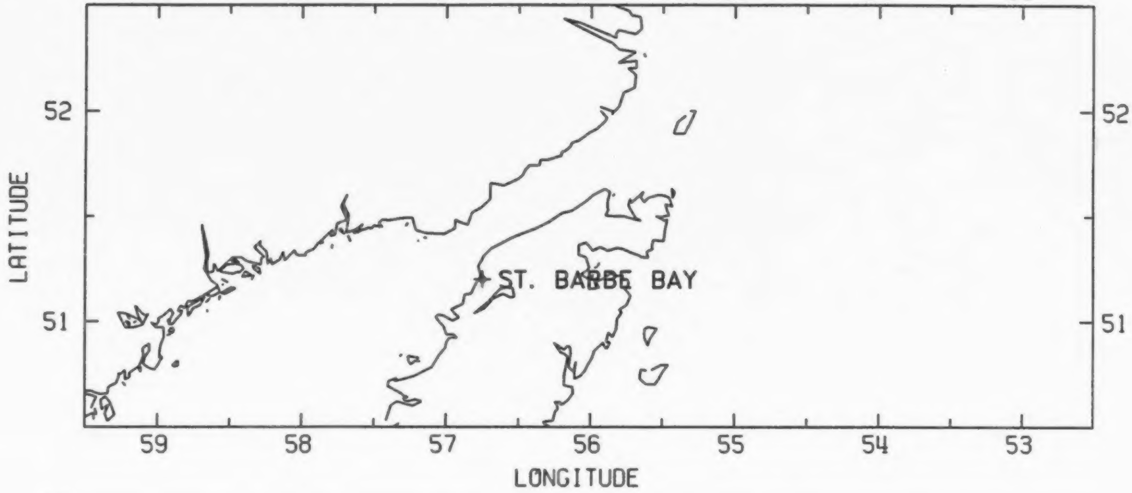
Start: 26-MAY-2004 End: 14-SEP-2004 Inst. S/N:7818

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2004

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007946
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	3 m
WATER DEPTH:	6 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2004 17:00 GMT
RECOVERY DATE/TIME:	14-SEP-2004 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	2.35	152	5.05	147	3.80	0.68	23.6	1.6	127
JUN-2004	-0.10	158	8.40	182	3.72	1.80	111.7	18.9	720
JUL-2004	3.85	194	16.05	210	11.47	3.03	355.5	231.5	744
AUG-2004	15.00	214	18.95	228	17.30	0.90	536.4	412.4	744
SEP-2004	13.05	258	17.25	245	14.99	0.86	209.6	153.6	330
T.PERIOD	-0.10	158	18.95	228	11.08	5.80	1236.9	818.0	2665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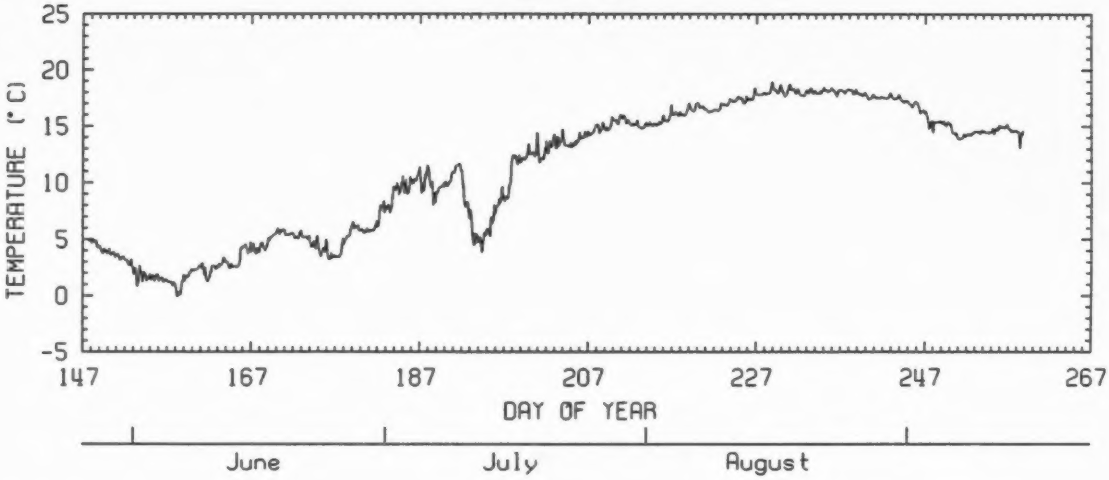
LATITUDE
ST. BARBE BAY
LONGITUDE



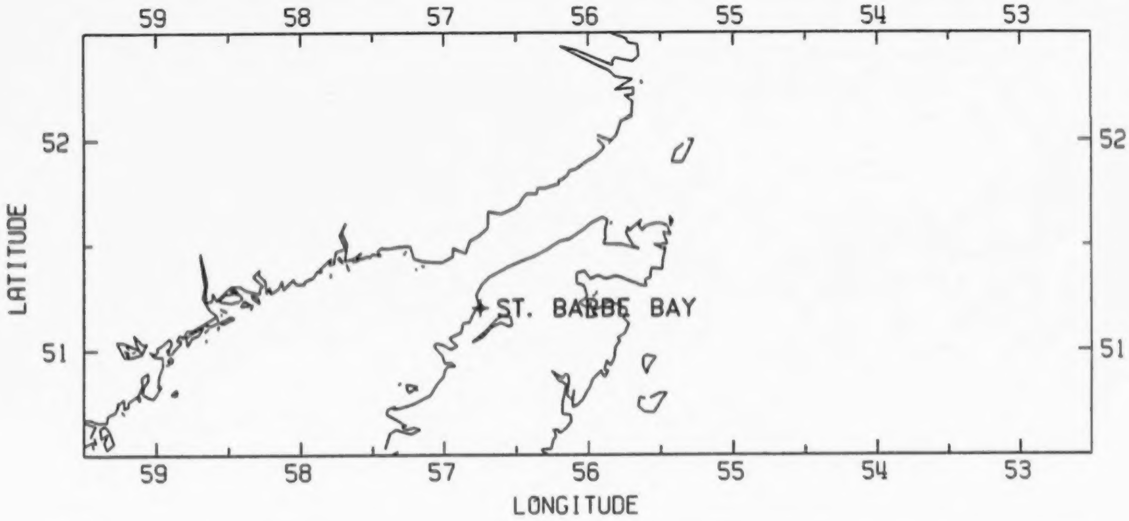
Start: 26-MAY-2004 End: 14-SEP-2004 Inst. S/N:7946

THERMOGRAPH DATA SUMMARY: ST. BARBE BAY (273) 2004

STATION NAME:	ST. BARBE BAY
STATION NUMBER:	273
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	008957
LATITUDE:	51.20° N
LONGITUDE:	56.75° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	2 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	26-MAY-2004 17:00 GMT
RECOVERY DATE/TIME:	14-SEP-2004 17:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	3.35	152	8.20	148	5.03	0.99	31.2	7.2	127
JUN-2004	0.20	158	16.05	182	4.88	2.12	146.4	36.6	720
JUL-2004	5.70	194	21.95	186	12.72	3.07	394.3	270.3	744
AUG-2004	14.95	214	21.70	226	17.46	1.13	541.4	417.4	744
SEP-2004	10.05	258	18.25	245	14.61	1.15	203.9	147.9	330
T.PERIOD	0.20	158	21.95	186	11.79	5.45	1317.2	879.4	2665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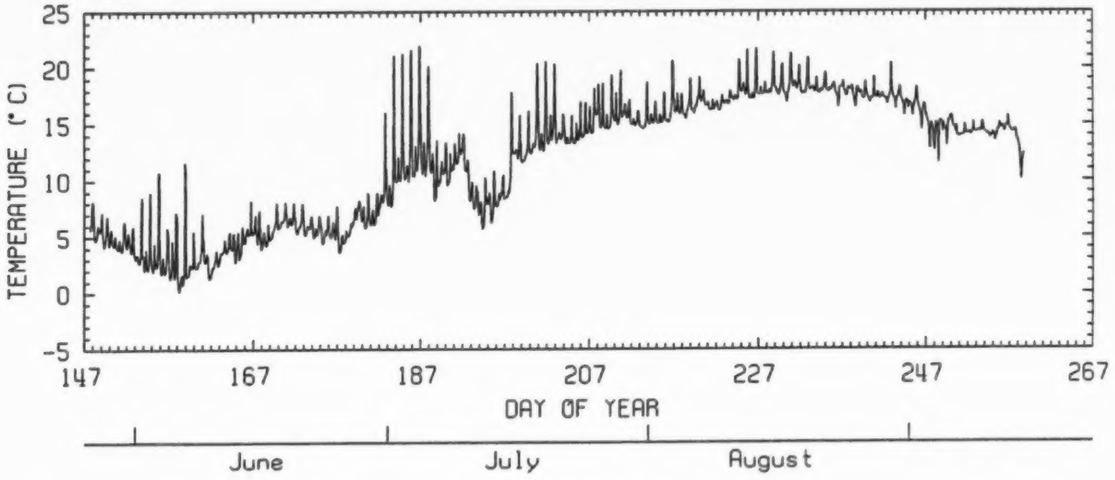
LONGITUDE
ST. BARBE BAY



Start: 26-MAY-2004 End: 14-SEP-2004 Inst. S/N:8957

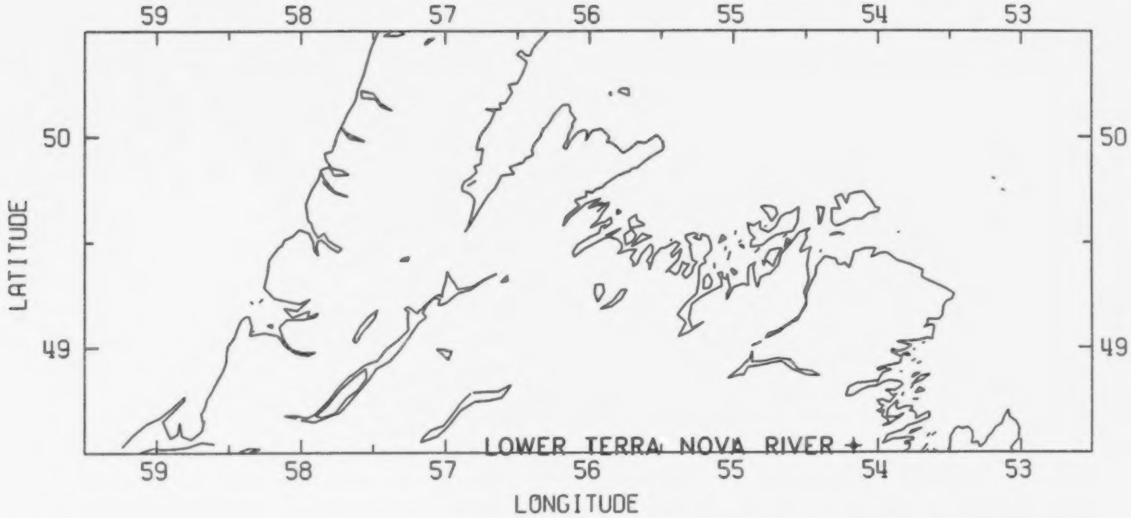
Appendix 11. Time Series Plots and Monthly Statistics from Freshwater Sites around Newfoundland and Labrador

THERMOGRAPH DATA SUMMARY: LOWER TERRA NOVA RIVER (115) 2004

STATION NAME:	LOWER TERRA NOVA RIVER
STATION NUMBER:	115
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009369
LATITUDE:	48.53° N
LONGITUDE:	54.17° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	18-JUN-2004 13:00 GMT
RECOVERY DATE/TIME:	11-SEP-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	11.50	176	17.80	182	13.48	1.52	174.8	122.8	299
JUL-2004	14.80	194	24.50	206	20.03	2.22	620.9	496.9	744
AUG-2004	16.90	244	24.20	225	20.78	1.76	644.1	520.1	744
SEP-2004	12.10	250	18.10	254	15.63	1.78	172.7	128.7	254
T.PERIOD	11.50	176	24.50	206	18.80	3.32	1612.6	1268.6	2041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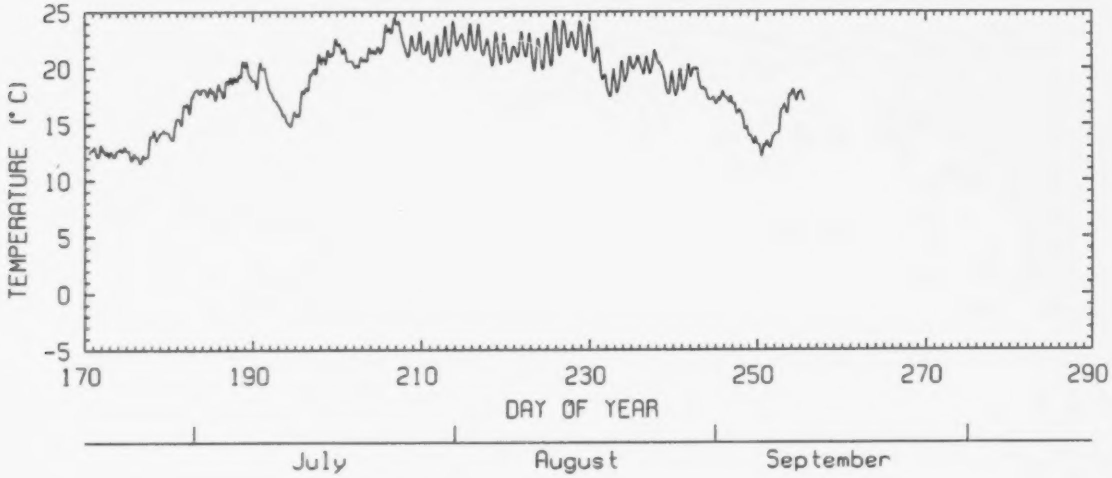
LATITUDE
LOWER TERRA NOVA RIVER +
LONGITUDE



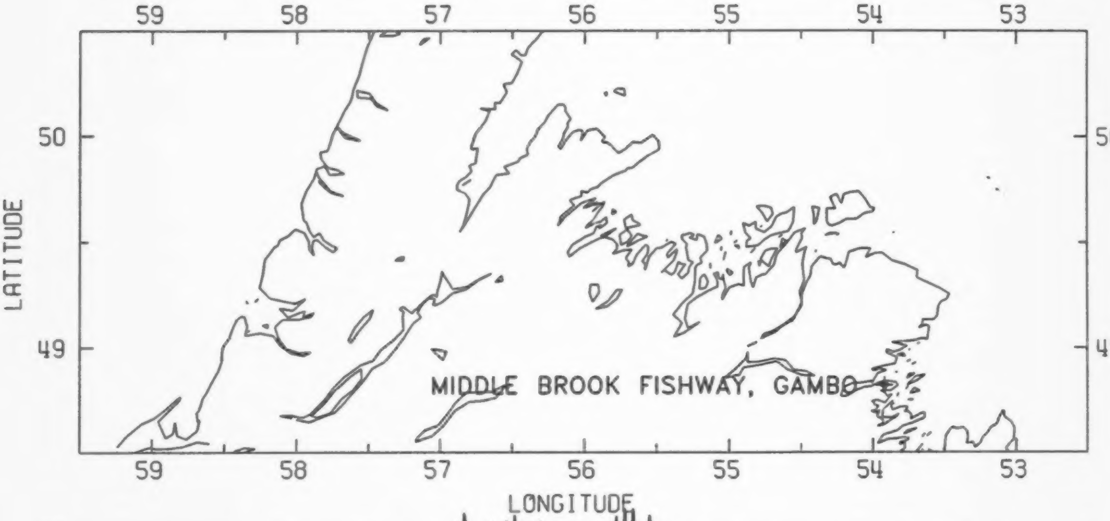
Start: 18-JUN-2004 End: 11-SEP-2004 Inst. S/N:9369

THERMOGRAPH DATA SUMMARY: MIDDLE BROOK FISHWAY, GAMBO (124) 2004

STATION NAME:	MIDDLE BROOK FISHWAY, GAMBO
STATION NUMBER:	124
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009501
LATITUDE:	48.82° N
LONGITUDE:	53.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	09-JUN-2004 12:00 GMT
RECOVERY DATE/TIME:	08-SEP-2004 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	9.30	165	19.20	182	12.91	1.93	283.1	195.1	516
JUL-2004	13.30	183	27.10	206	19.95	2.92	618.5	494.5	744
AUG-2004	15.90	240	27.50	225	21.30	2.51	660.3	536.3	744
SEP-2004	12.60	250	19.90	245	16.04	1.67	128.4	96.4	181
T.PERIOD	9.30	165	27.50	225	18.42	4.18	1690.2	1322.2	2185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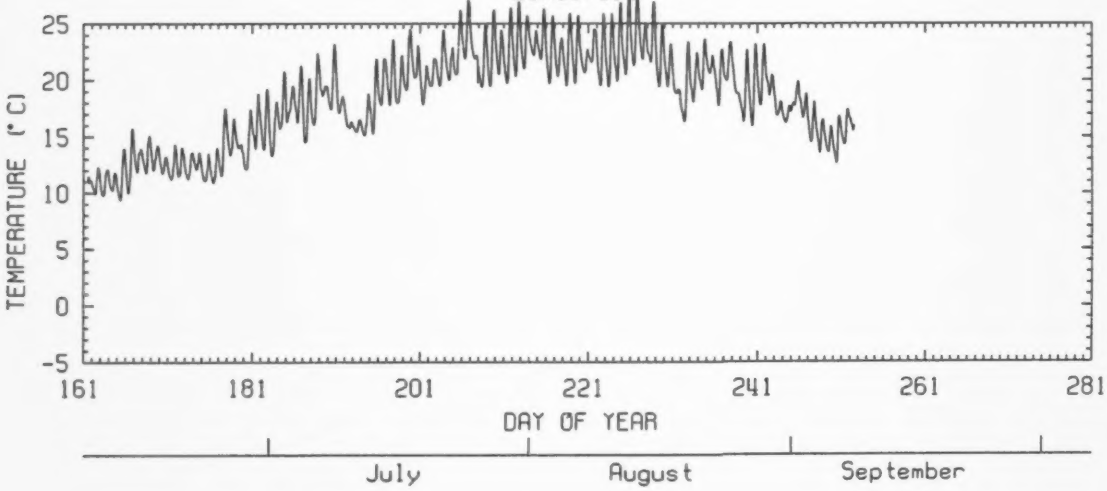
MIDDLE BROOK FISHWAY, GAMBO



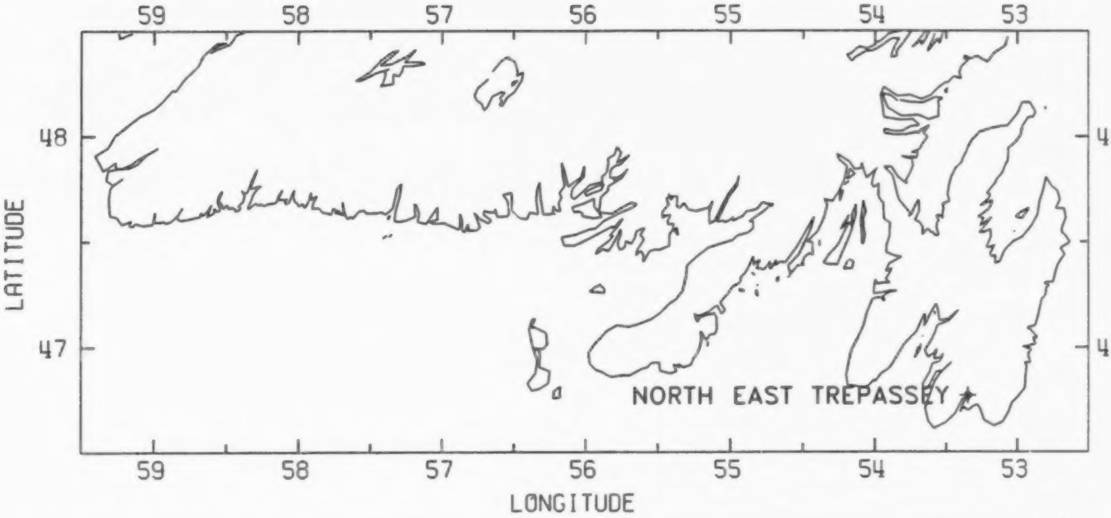
Start: 9-JUN-2004 End: 8-SEP-2004 Inst. S/N:9501

THERMOGRAPH DATA SUMMARY: NORTH EAST TREPASSEY (130) 2004

STATION NAME:	NORTH EAST TREPASSEY
STATION NUMBER:	130
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	003287
LATITUDE:	46.77° N
LONGITUDE:	53.35° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	21-APR-2004 19:00 GMT
RECOVERY DATE/TIME:	14-SEP-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2004	3.60	116	8.20	115	5.40	1.05	54.4	14.4	221
MAY-2004	6.05	122	15.65	147	9.65	1.77	299.0	175.0	744
JUN-2004	8.20	153	21.95	182	13.07	2.80	392.1	272.1	720
JUL-2004	14.30	185	25.35	213	18.30	2.11	567.4	443.4	744
AUG-2004	14.75	240	26.00	228	19.11	2.46	592.3	468.3	744
SEP-2004	12.10	250	18.15	253	14.79	1.35	206.9	150.9	326
T.PERIOD	3.60	116	26.00	228	14.41	4.80	2112.2	1524.2	3499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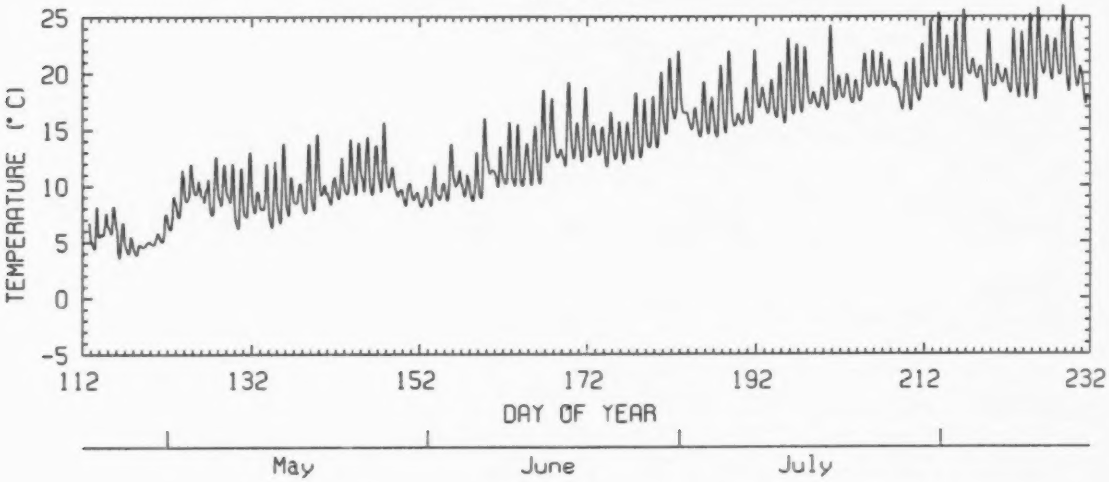
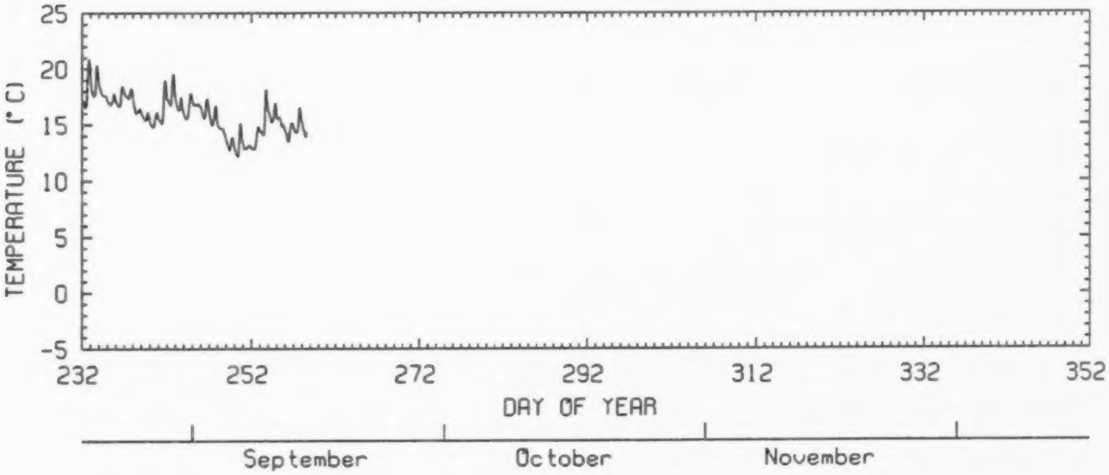
LONGITUDE
NORTH EAST TREPASSEY





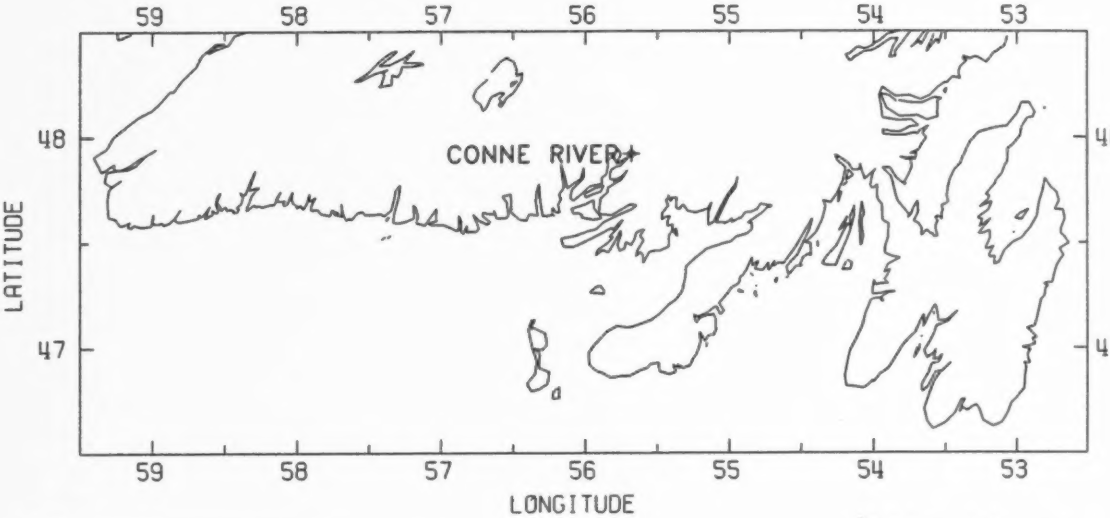
Start:21-APR-2004 End:14-SEP-2004 Inst. S/N:3287

THERMOGRAPH DATA SUMMARY: CONNE RIVER (133) 2004

STATION NAME:	CONNE RIVER
STATION NUMBER:	133
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	007934
LATITUDE:	47.92° N
LONGITUDE:	55.68° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	29-APR-2004 17:00 GMT
RECOVERY DATE/TIME:	31-AUG-2004 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
APR-2004	4.80	121	7.85	121	6.23	0.99	12.8	4.8	31
MAY-2004	4.30	130	17.05	147	10.19	2.28	315.9	191.9	744
JUN-2004	7.75	153	20.60	182	13.22	2.46	396.7	276.7	720
JUL-2004	14.10	194	26.55	212	19.44	2.19	602.6	478.6	744
AUG-2004	14.40	244	26.05	228	19.85	2.34	613.0	489.0	733
T.PERIOD	4.30	130	26.55	212	15.58	4.80	1941.0	1441.0	2972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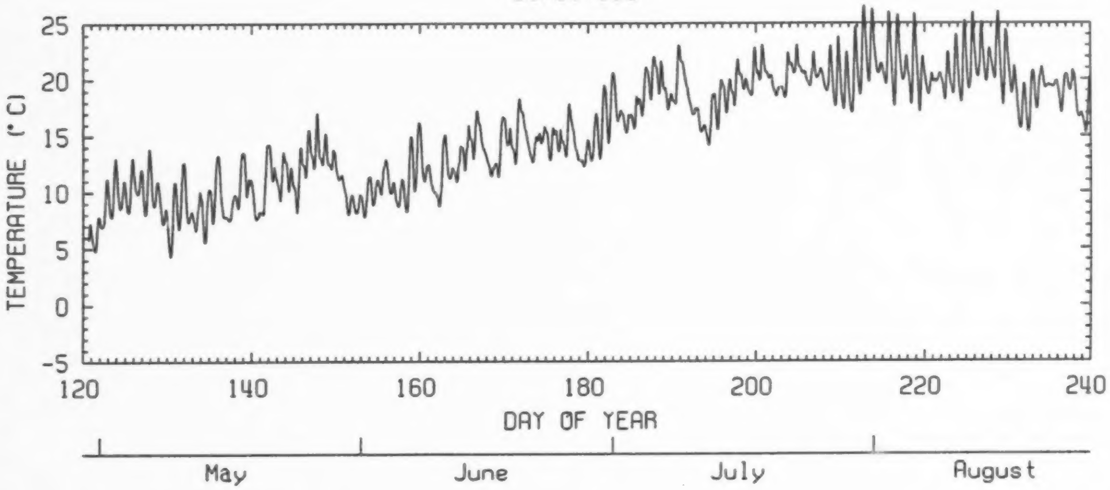
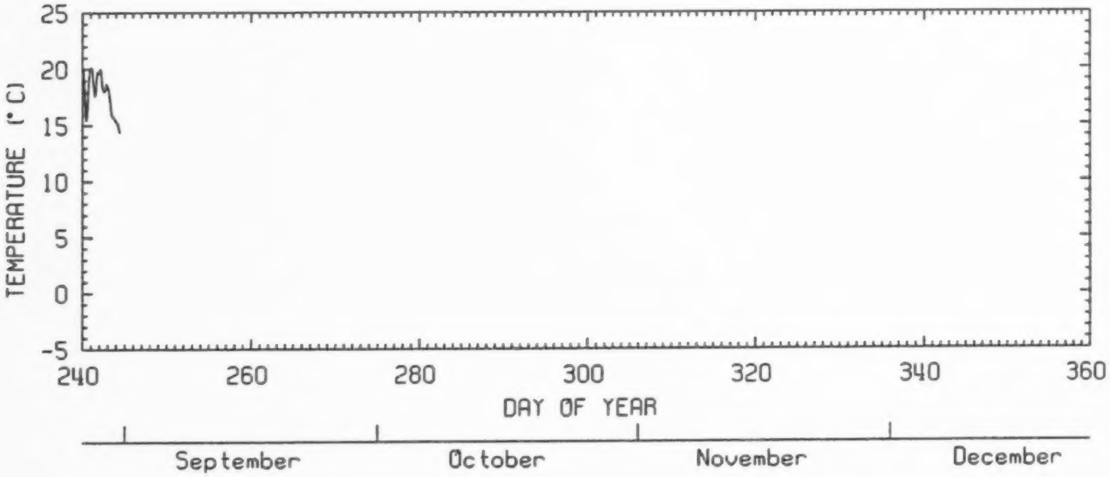
CONNE RIVER
LATITUDE
LONGITUDE





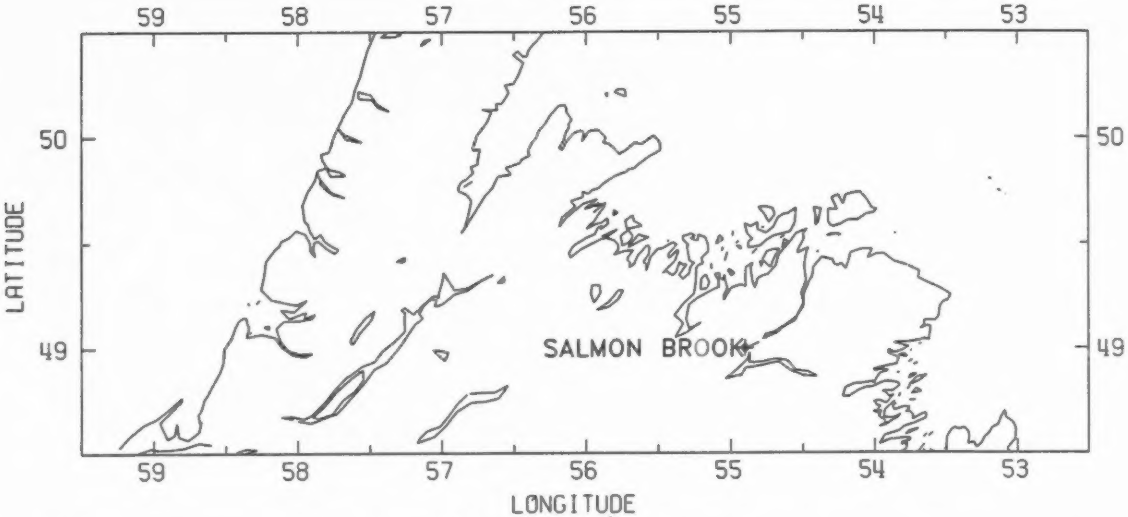
Start:29-APR-2004 End:31-AUG-2004 Inst. S/N:7934

THERMOGRAPH DATA SUMMARY: SALMON BROOK (152) 2004

STATION NAME:	SALMON BROOK
STATION NUMBER:	152
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009503
LATITUDE:	49.00° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	10-JUN-2004 11:00 GMT
RECOVERY DATE/TIME:	09-SEP-2004 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	10.20	165	19.10	182	13.58	1.77	284.2	200.2	493
JUL-2004	15.40	194	26.20	206	20.76	2.45	643.6	519.6	744
AUG-2004	16.50	232	26.80	224	21.17	2.12	656.3	532.3	744
SEP-2004	12.40	250	19.20	245	15.43	1.80	139.0	103.0	209
T.PERIOD	10.20	165	26.80	224	18.78	3.87	1723.0	1355.0	2190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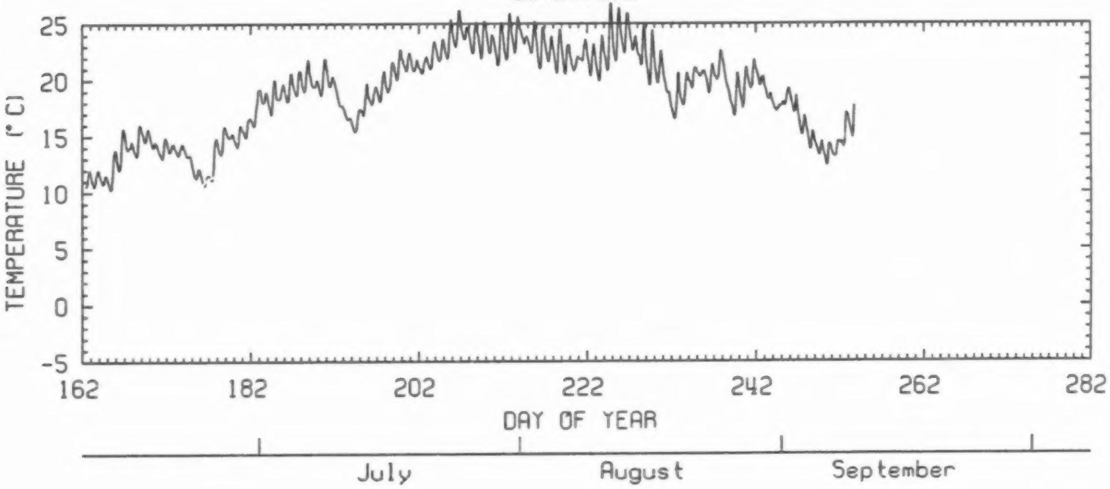
LATITUDE
LONGITUDE
SALMON BROOK



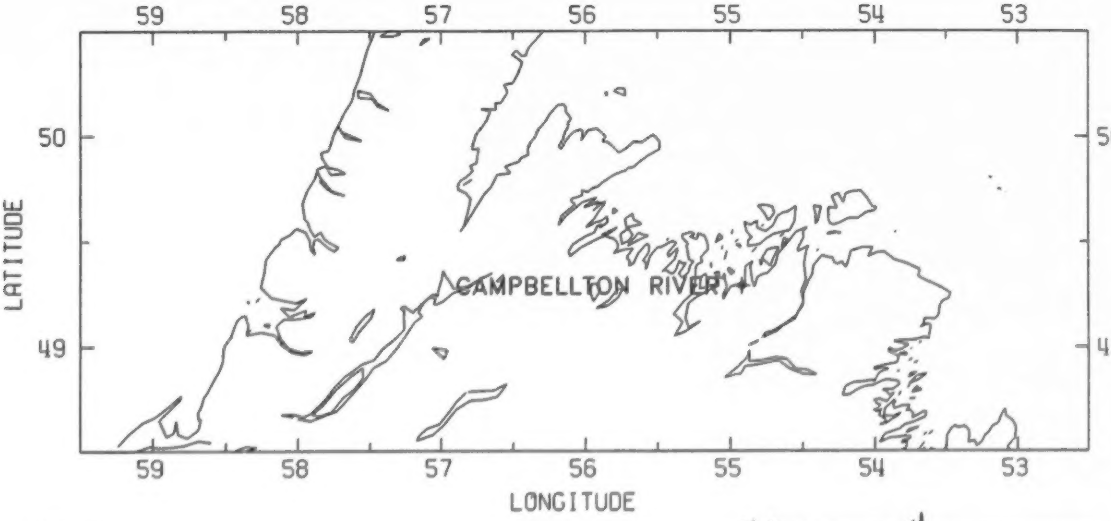
Start: 10-JUN-2004 End: 9-SEP-2004 Inst. S/N:9503

THERMOGRAPH DATA SUMMARY: CAMPBELLTON RIVER (181) 2004

STATION NAME:	CAMPBELLTON RIVER
STATION NUMBER:	181
INSTRUMENT TYPE:	Seamon UTR-B (Hugrun)
INSTRUMENT S/N:	8973
LATITUDE:	49.29° N
LONGITUDE:	54.92° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	06-MAY-2004 12:00 GMT
RECOVERY DATE/TIME:	27-AUG-2004 11:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	5.90	135	16.75	149	10.10	2.31	263.4	159.4	612
JUN-2004	7.85	158	18.85	182	12.50	2.52	374.9	254.9	720
JUL-2004	15.75	195	26.20	206	21.27	2.44	659.4	535.4	744
AUG-2004	15.20	239	26.95	226	21.76	2.27	585.7	477.7	636
T.PERIOD	5.90	135	26.95	226	16.54	5.65	1883.5	1427.5	2712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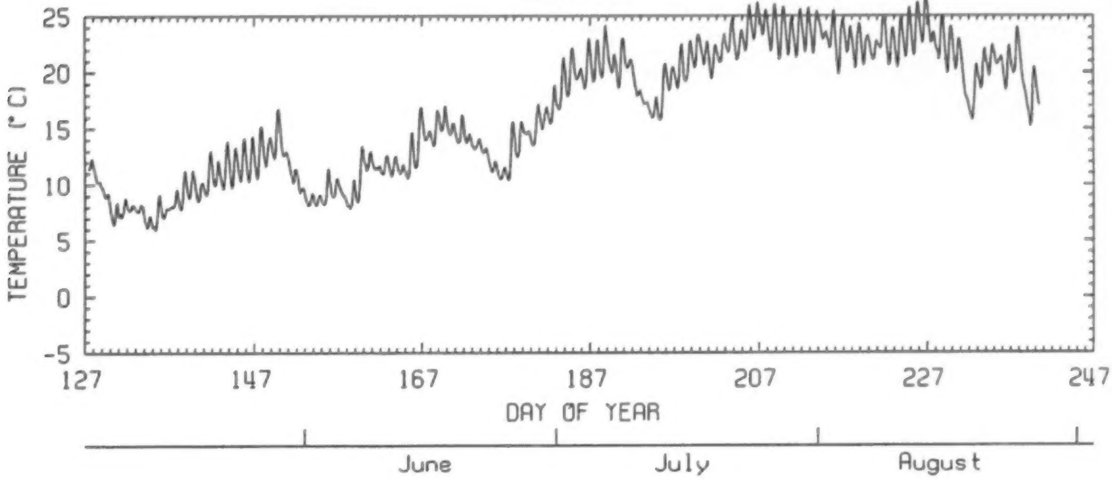
LATITUDE
LONGITUDE
CAMPBELLTON RIVER



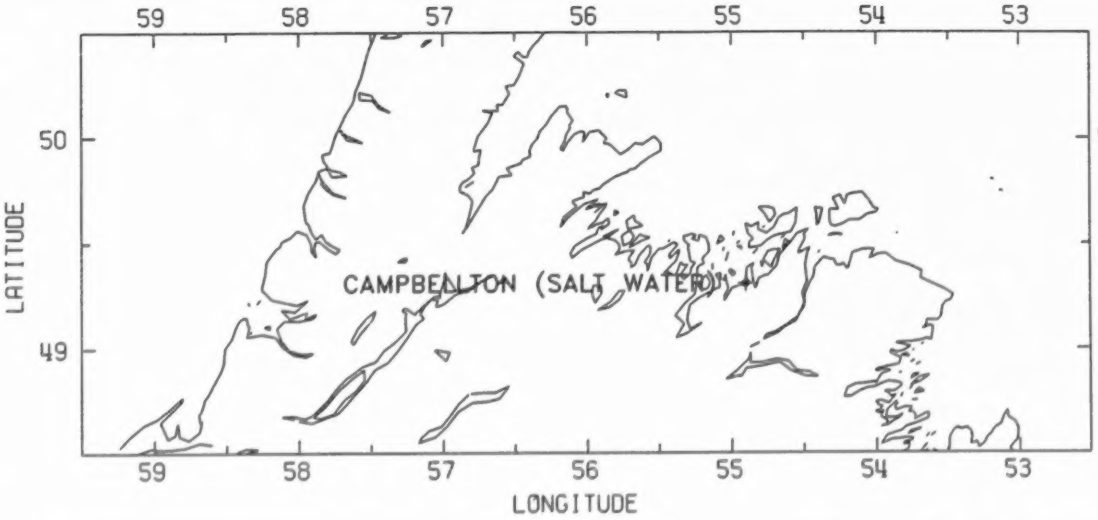
Start: 6-MAY-2004 End: 27-AUG-2004 Inst. S/N:8973

THERMOGRAPH DATA SUMMARY: CAMPBELLTON (SALT WATER) (195) 2004

STATION NAME:	CAMPBELLTON (SALT WATER)
STATION NUMBER:	195
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009379
LATITUDE:	49.31° N
LONGITUDE:	54.90° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	31 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-MAY-2004 21:00 GMT
RECOVERY DATE/TIME:	16-OCT-2004 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	0.40	140	8.40	147	3.84	1.61	93.6	12.6	579
JUN-2004	2.00	161	14.50	182	7.28	2.39	218.3	99.0	720
JUL-2004	7.70	188	21.40	213	15.67	2.83	485.9	361.9	744
AUG-2004	14.50	235	21.60	225	18.65	1.18	578.3	454.3	744
SEP-2004	7.70	266	17.40	245	14.10	2.16	423.1	303.0	720
OCT-2004	10.60	286	12.30	275	11.46	0.40	183.4	119.4	377
T.PERIOD	0.40	140	21.60	225	12.22	5.48	1982.4	1350.2	3884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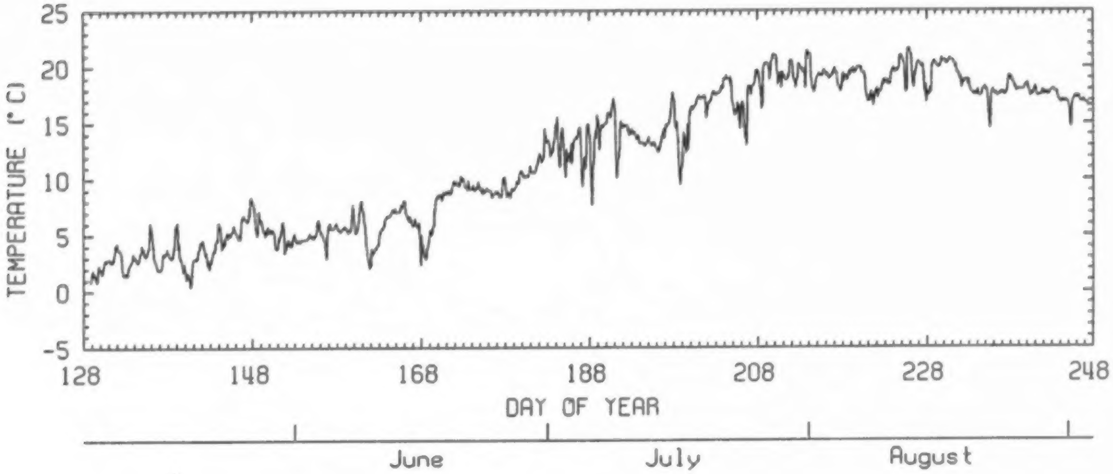
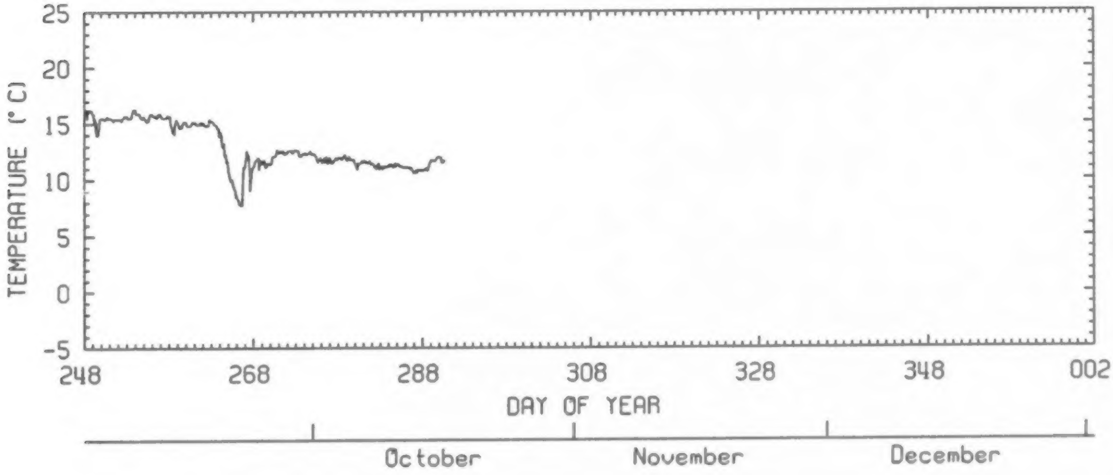
LATITUDE
LONGITUDE
CAMPBELLTON (SALT WATER)





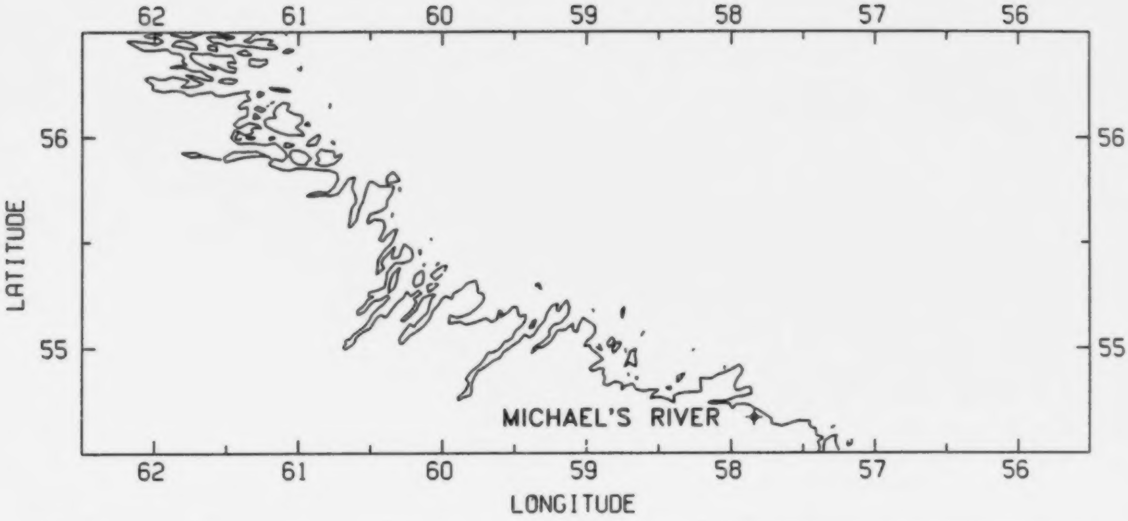
Start: 7-MAY-2004 End: 16-OCT-2004 Inst. S/N: 9379

THERMOGRAPH DATA SUMMARY: MICHAEL'S RIVER (216) 2004

STATION NAME:	MICHAEL'S RIVER
STATION NUMBER:	216
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009577
LATITUDE:	54.67° N
LONGITUDE:	57.84° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	10-JUL-2004 13:00 GMT
RECOVERY DATE/TIME:	16-AUG-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	12.70	193	23.20	205	16.68	2.17	366.8	278.8	515
AUG-2004	13.00	222	22.60	226	15.86	1.88	253.2	189.2	374
T.PERIOD	12.70	193	23.20	205	16.33	2.09	620.1	468.1	889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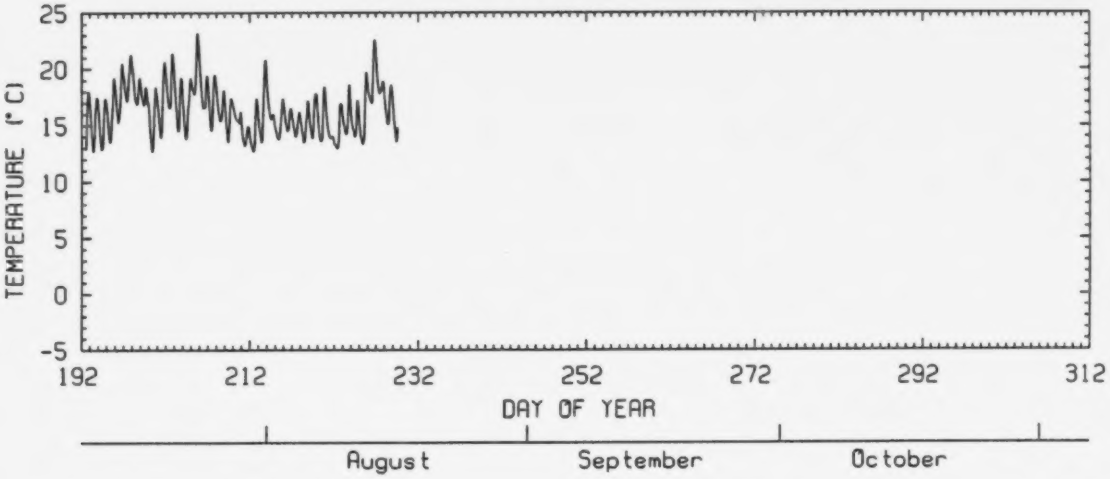
LATITUDE
MICHAEL'S RIVER
LONGITUDE



Start: 10-JUL-2004 End: 16-AUG-2004 Inst. S/N:9577

THERMOGRAPH DATA SUMMARY: EXPLOITS RIVER (228) 2004

STATION NAME: EXPLOITS RIVER

STATION NUMBER: 228

INSTRUMENT TYPE: Minilog-T (Vemco)

INSTRUMENT S/N: 006443

LATITUDE: 48.93° N

LONGITUDE: 55.67° W

INSTRUMENT DEPTH: 1 m

WATER DEPTH: 1 m

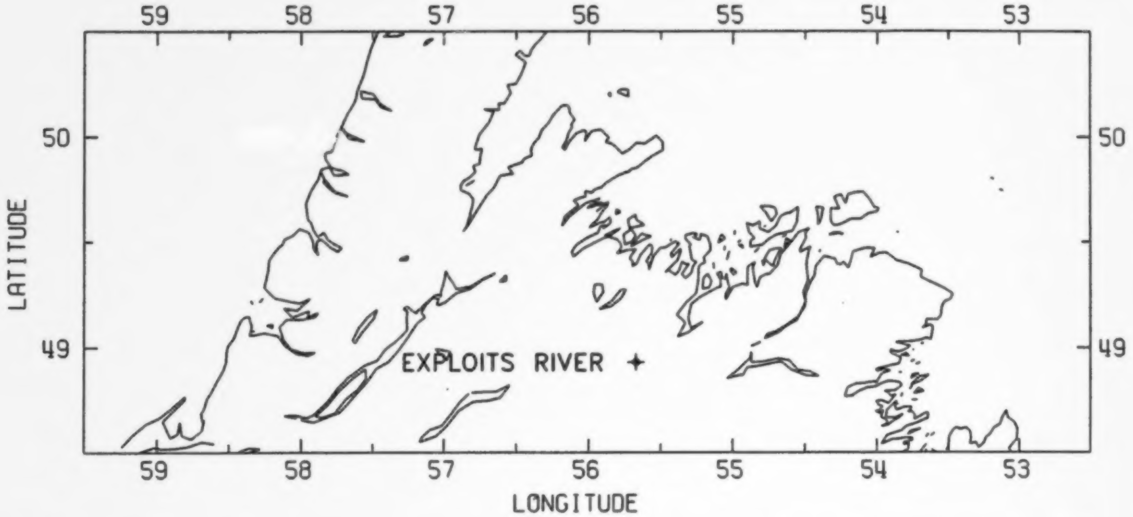
SAMPLE INTERVAL: 60 min.

DEPLOYMENT DATE/TIME: 14-MAY-2004 15:00 GMT

RECOVERY DATE/TIME: 18-AUG-2004 19:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
MAY-2004	4.40	136	11.50	149	9.39	1.39	167.1	95.1	417
JUN-2004	6.80	153	15.90	182	11.45	1.78	343.4	223.4	720
JUL-2004	13.90	194	23.70	207	19.09	2.28	591.9	467.9	744
AUG-2004	19.90	231	23.10	227	21.53	0.70	387.3	315.3	428
T.PERIOD	4.40	136	23.70	207	15.41	5.09	1489.7	1101.7	2309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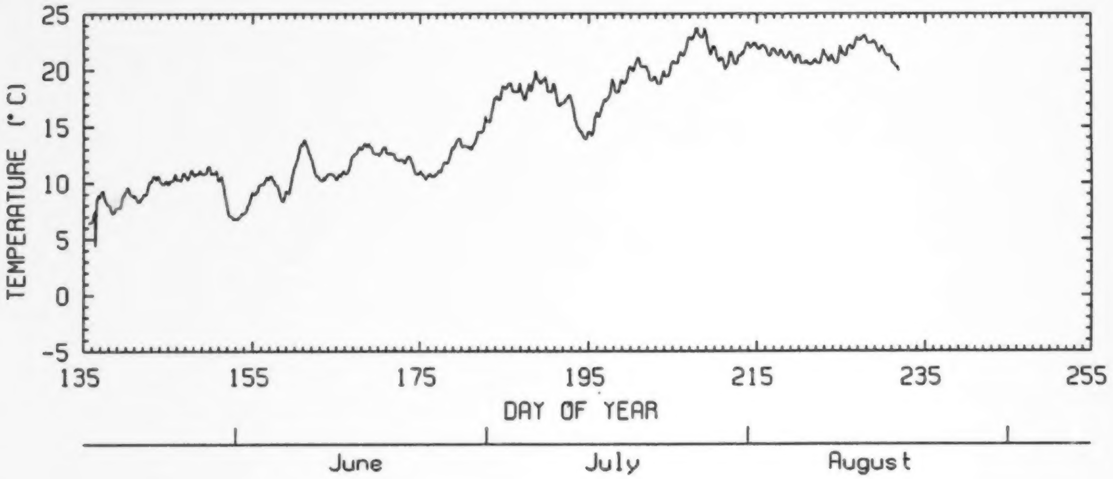
LATITUDE
EXPLOITS RIVER
LONGITUDE



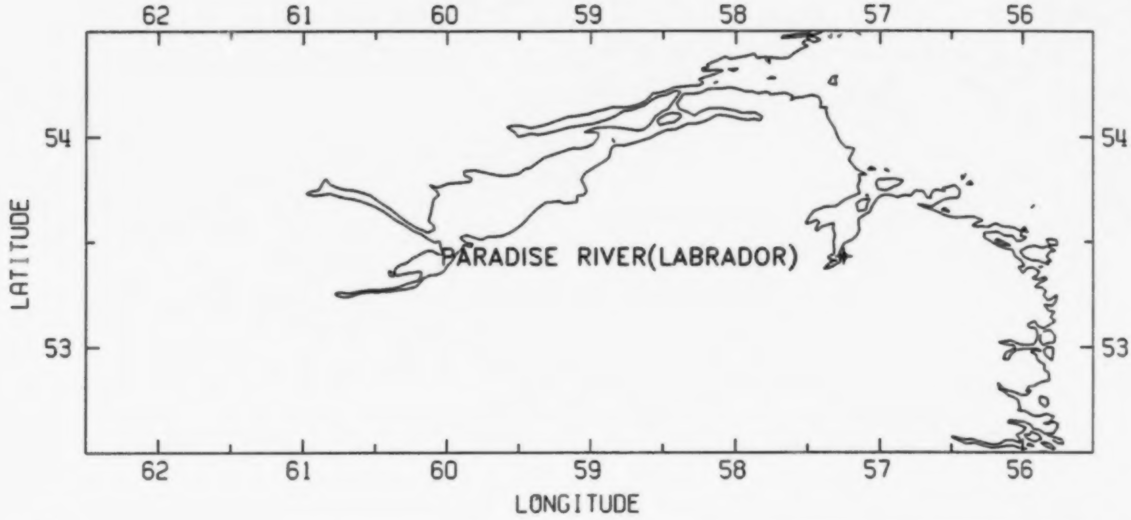
Start: 14-MAY-2004 End: 18-AUG-2004 Inst. S/N:6443

THERMOGRAPH DATA SUMMARY: PARADISE RIVER(LABRADOR) (229) 2004

STATION NAME:	PARADISE RIVER(LABRADOR)
STATION NUMBER:	229
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009362
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUN-2004 19:00 GMT
RECOVERY DATE/TIME:	08-SEP-2004 12:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	12.60	177	16.00	182	14.13	0.87	83.6	59.6	125
JUL-2004	13.30	209	23.60	202	17.45	2.10	540.8	416.8	744
AUG-2004	11.70	244	22.20	232	17.19	1.89	532.8	408.8	744
SEP-2004	8.00	250	17.40	245	12.19	2.12	97.8	65.8	181
T.PERIOD	8.00	250	23.60	202	16.58	2.58	1255.1	951.1	1794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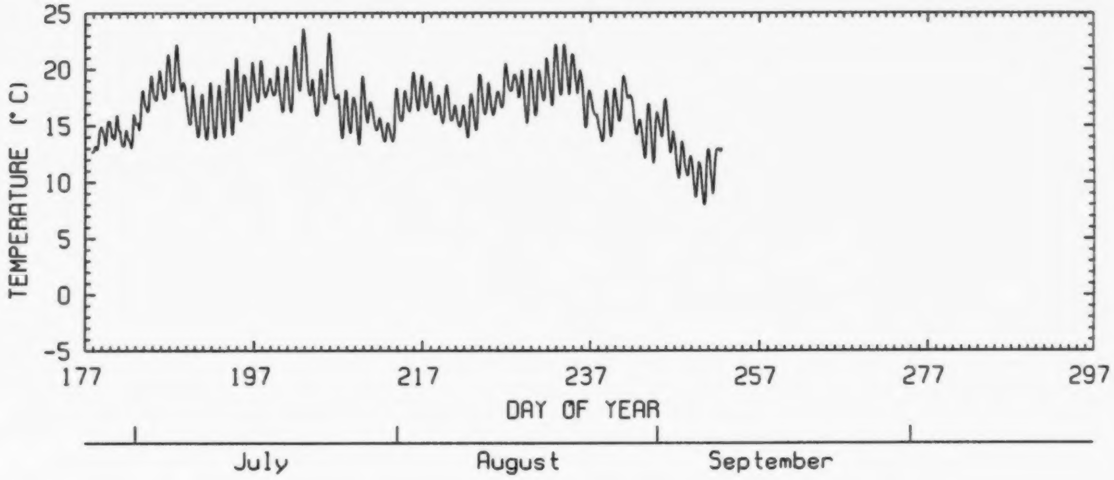
LATITUDE
PARADISE RIVER(LABRADOR)
LONGITUDE



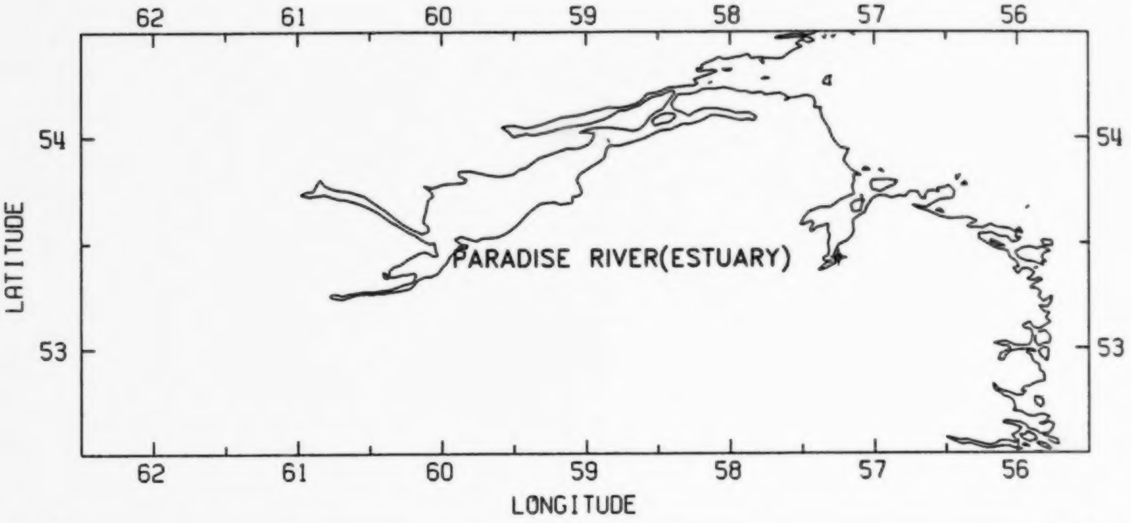
Start: 25-JUN-2004 End: 8-SEP-2004 Inst. S/N:9362

THERMOGRAPH DATA SUMMARY: PARADISE RIVER(ESTUARY) (232) 2004

STATION NAME:	PARADISE RIVER(ESTUARY)
STATION NUMBER:	232
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	002187
LATITUDE:	53.43° N
LONGITUDE:	57.25° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUN-2004 21:00 GMT
RECOVERY DATE/TIME:	08-SEP-2004 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	11.40	178	16.10	182	13.57	1.22	79.8	55.8	123
JUL-2004	5.10	199	19.80	201	13.16	3.44	407.9	283.9	744
AUG-2004	5.50	228	19.60	232	13.21	3.31	409.5	285.5	744
SEP-2004	7.40	251	16.90	245	11.87	1.77	94.4	62.4	184
T.PERIOD	5.10	199	19.80	201	13.08	3.17	991.6	687.6	1795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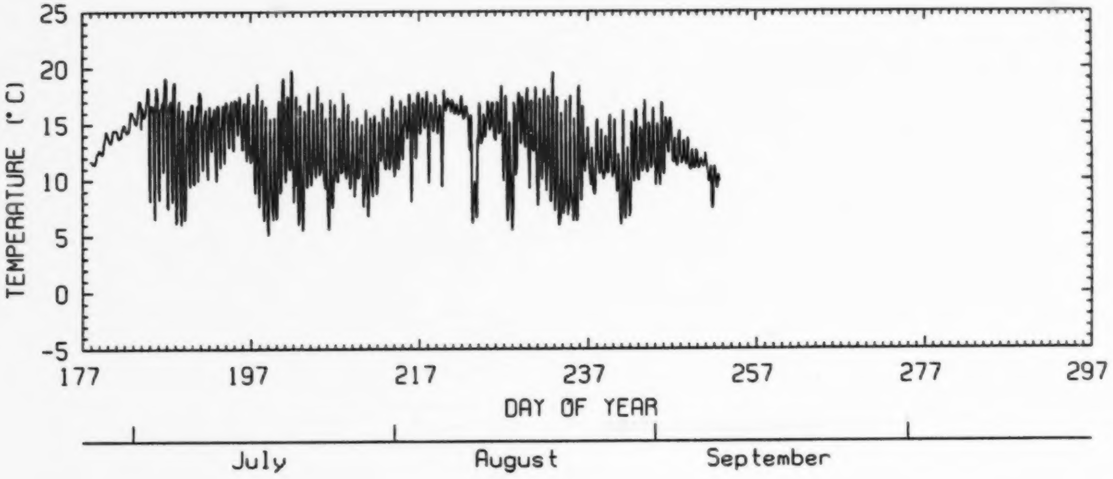
LATITUDE
LONGITUDE
PARADISE RIVER(ESTUARY)



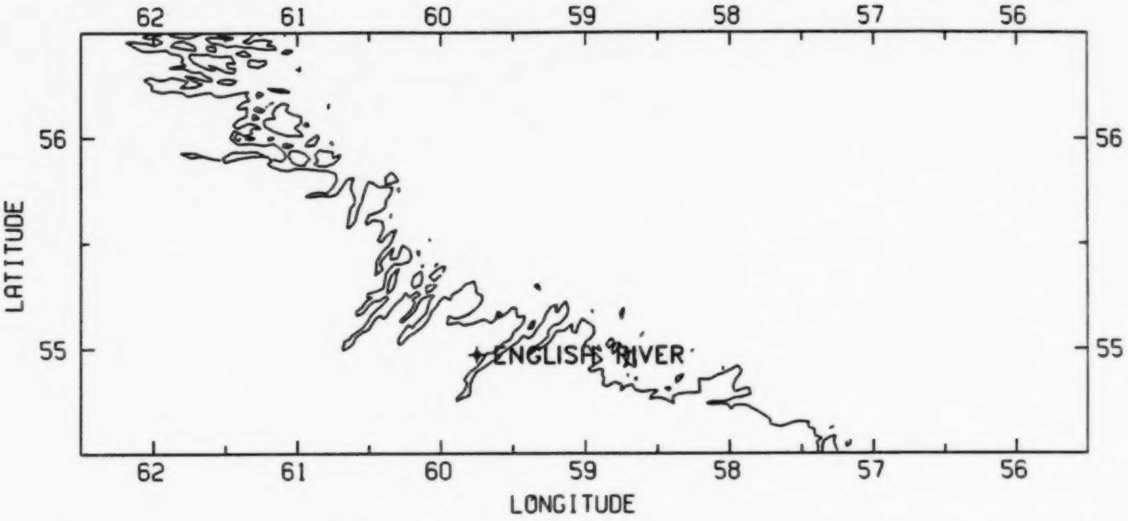
Start: 25-JUN-2004 End: 8-SEP-2004 Inst. S/N:2187

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER (245) 2004

STATION NAME:	ENGLISH RIVER
STATION NUMBER:	245
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009366
LATITUDE:	54.97° N
LONGITUDE:	59.75° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	04-JUL-2004 15:00 GMT
RECOVERY DATE/TIME:	05-OCT-2004 14:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	10.60	192	17.20	202	14.53	1.65	406.0	294.0	657
AUG-2004	13.90	225	18.10	233	15.79	0.77	489.6	365.6	744
SEP-2004	7.00	270	15.70	245	11.49	1.71	344.6	224.6	720
OCT-2004	8.10	275	10.10	276	9.10	0.49	45.5	25.5	111
T.PERIOD	7.00	270	18.10	233	13.70	2.50	1285.7	909.7	2232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LATITUDE
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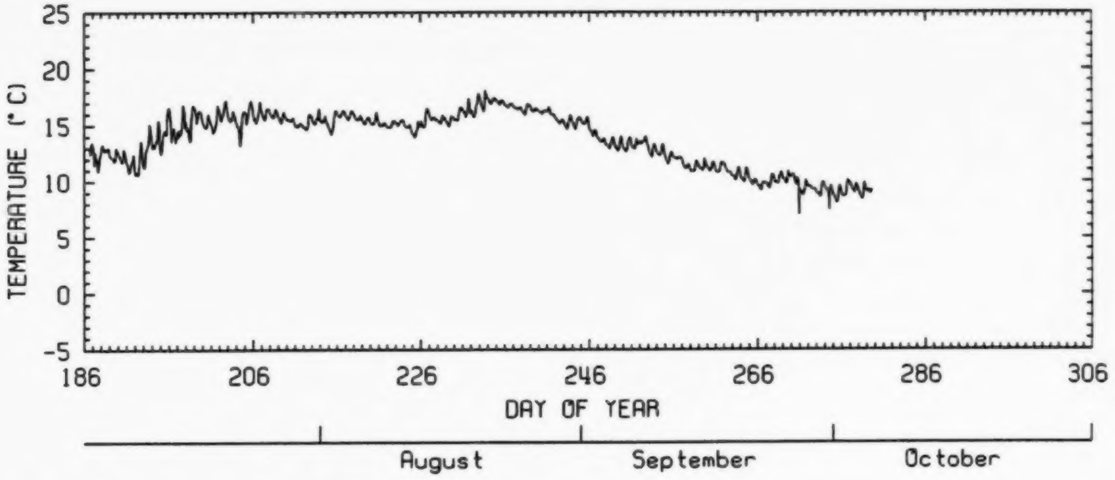
ENGLISH RIVER
LONGITUDE



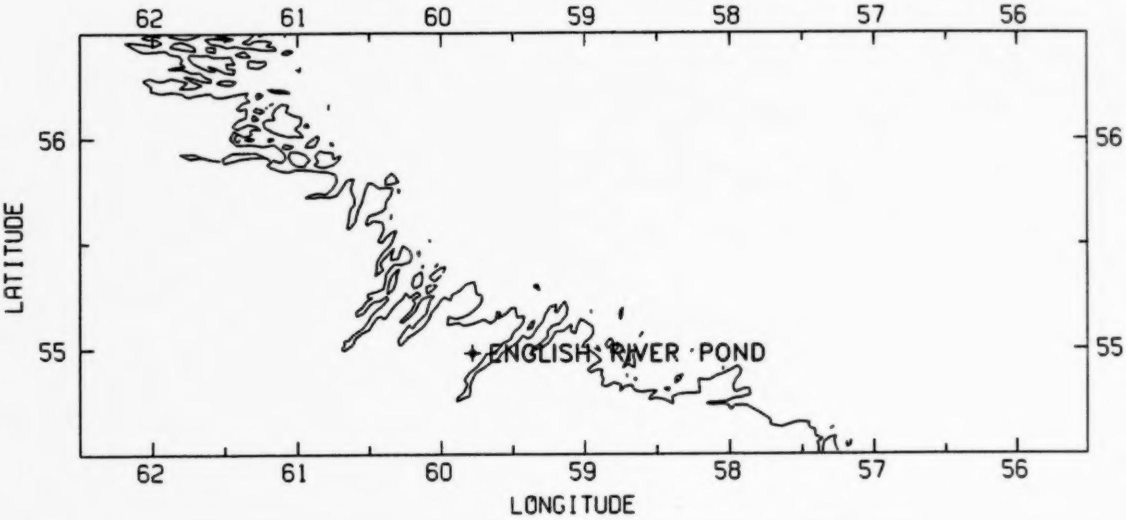
Start: 4-JUL-2004 End: 5-OCT-2004 Inst. S/N:9366

THERMOGRAPH DATA SUMMARY: ENGLISH RIVER POND (271) 2004

STATION NAME:	ENGLISH RIVER POND
STATION NUMBER:	271
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007412
LATITUDE:	54.98° N
LONGITUDE:	59.78° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	05-JUL-2004 18:00 GMT
RECOVERY DATE/TIME:	02-OCT-2004 15:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	11.10	193	16.90	199	14.73	1.50	396.7	288.7	630
AUG-2004	14.50	225	18.10	232	15.93	0.73	493.7	369.7	744
SEP-2004	9.20	274	15.90	245	11.77	1.66	353.1	233.1	720
OCT-2004	9.00	275	9.50	275	9.21	0.15	18.4	10.4	40
T.PERIOD	9.00	275	18.10	232	14.05	2.31	1261.9	901.9	2134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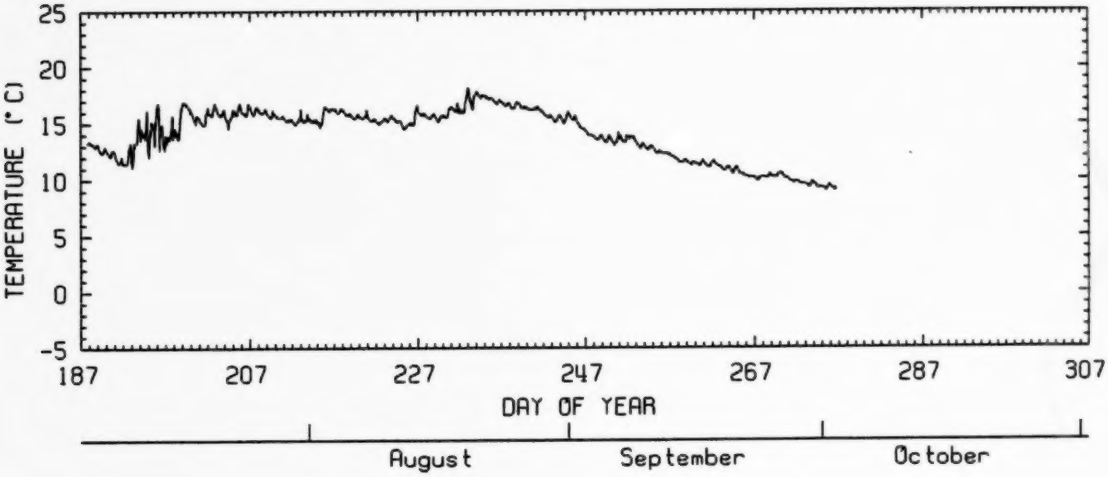
LATITUDE
LONGITUDE
ENGLISH RIVER POND



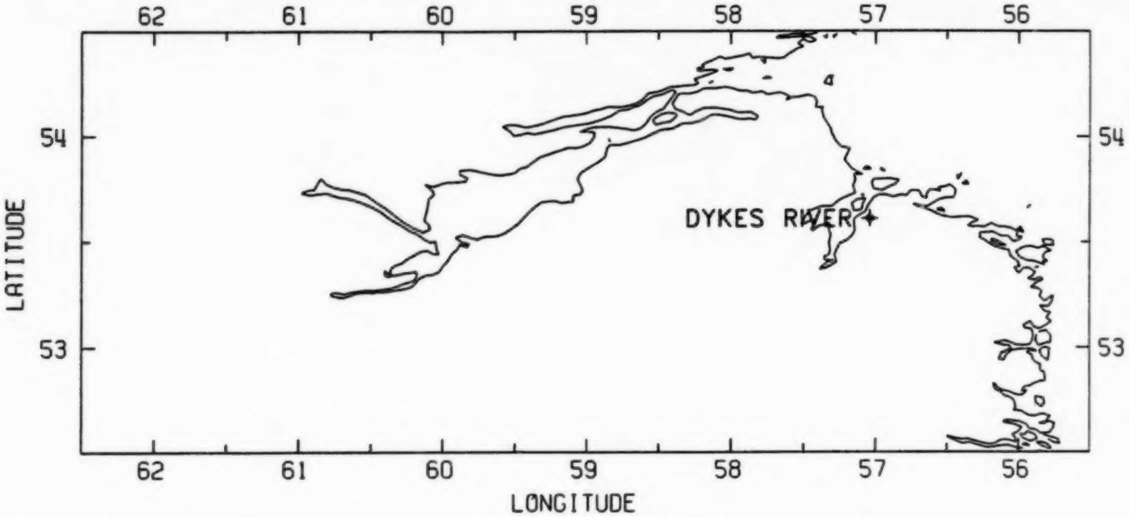
Start: 5-JUL-2004 End: 2-OCT-2004 Inst. S/N:7412

THERMOGRAPH DATA SUMMARY: DYKES RIVER (274) 2004

STATION NAME:	DYKES RIVER
STATION NUMBER:	274
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009380
LATITUDE:	53.61° N
LONGITUDE:	57.04° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	1 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	25-JUN-2004 14:00 GMT
RECOVERY DATE/TIME:	07-SEP-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	10.10	177	16.60	182	14.03	1.27	83.0	59.0	130
JUL-2004	14.50	212	22.90	202	18.25	1.89	565.7	441.7	744
AUG-2004	13.00	243	21.60	232	17.73	1.79	549.5	425.5	744
SEP-2004	9.80	250	16.50	245	12.74	1.83	88.5	60.5	158
T.PERIOD	9.80	250	22.90	202	17.23	2.52	1286.8	986.8	1776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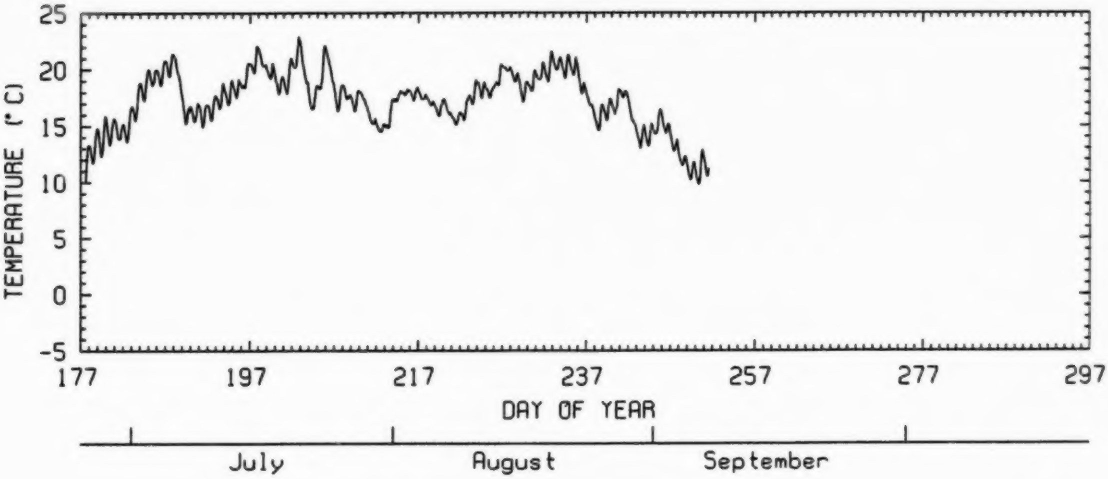
LATITUDE
LONGITUDE
DYKES RIVER



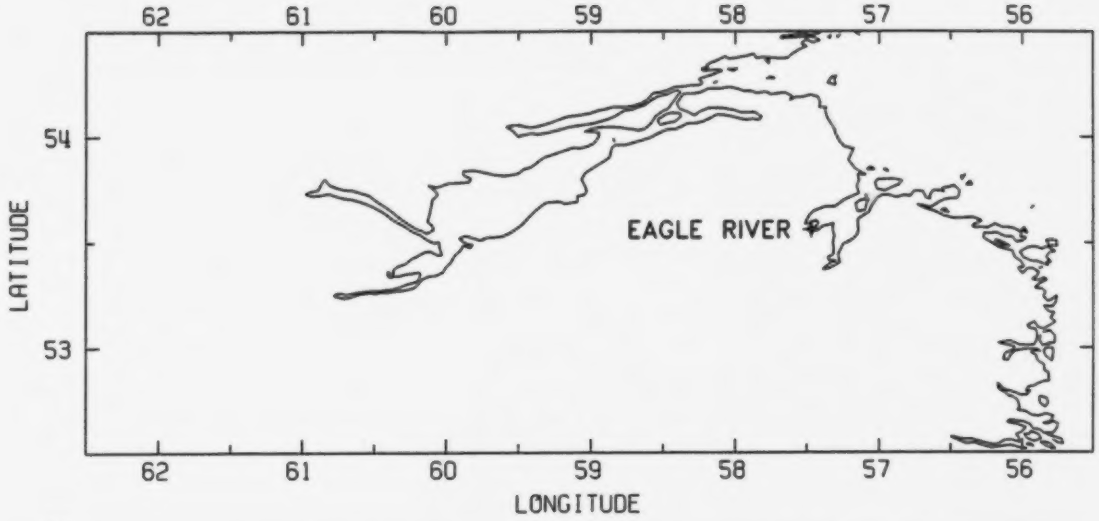
Start: 25-JUN-2004 End: 7-SEP-2004 Inst. S/N:9380

THERMOGRAPH DATA SUMMARY: EAGLE RIVER (275) 2004

STATION NAME:	EAGLE RIVER
STATION NUMBER:	275
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	007416
LATITUDE:	53.56° N
LONGITUDE:	57.47° W
INSTRUMENT DEPTH:	1 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2004 16:00 GMT
RECOVERY DATE/TIME:	31-AUG-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	13.30	180	16.60	182	14.71	0.82	59.1	43.1	80
JUL-2004	14.50	212	22.90	202	18.25	1.89	565.7	441.7	744
AUG-2004	13.00	243	21.60	232	17.77	1.77	549.1	425.1	734
T.PERIOD	13.00	243	22.90	202	17.84	1.95	1173.9	909.9	1558



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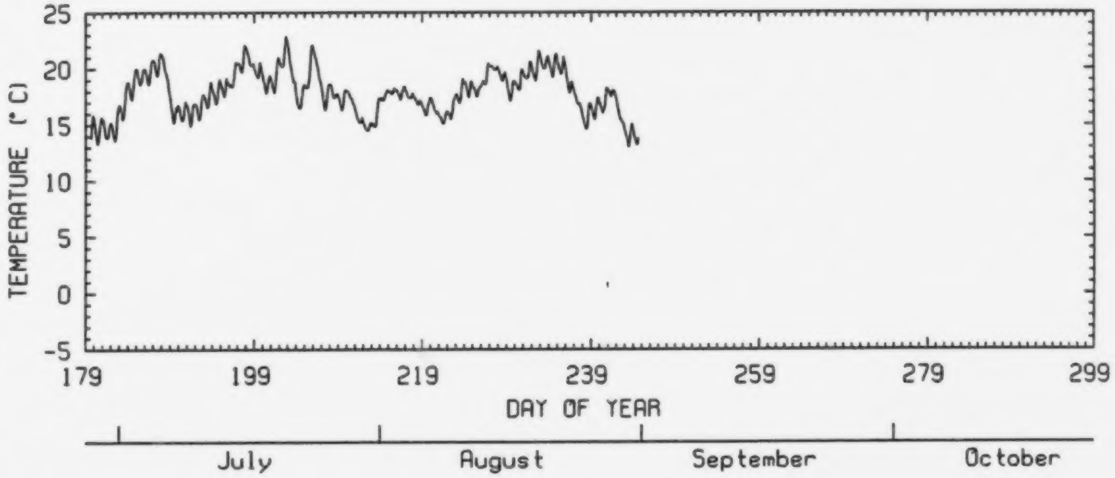
LATITUDE
LONGITUDE
EAGLE RIVER



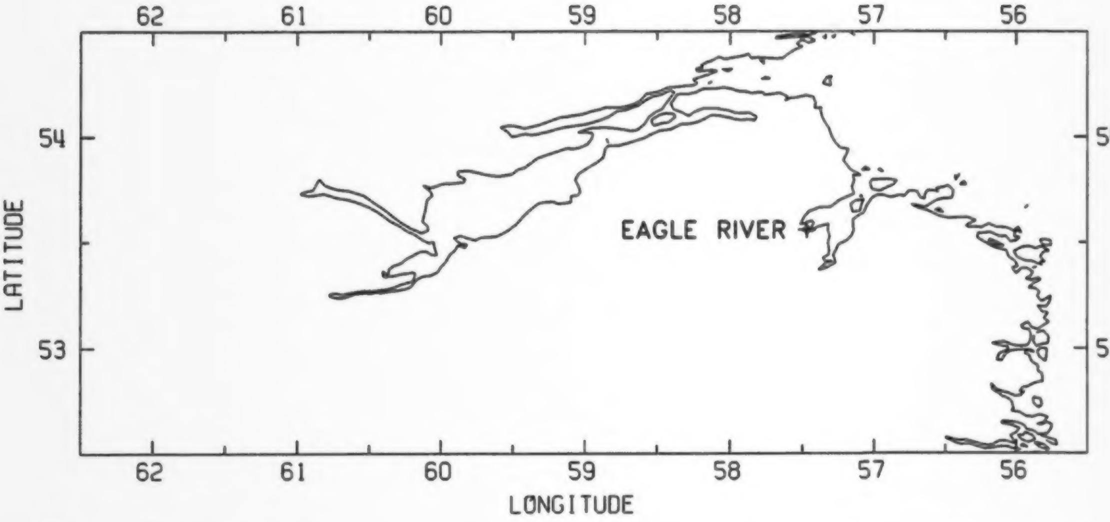
Start: 27-JUN-2004 End: 31-AUG-2004 Inst. S/N:7416

THERMOGRAPH DATA SUMMARY: EAGLE RIVER (275) 2004

STATION NAME:	EAGLE RIVER
STATION NUMBER:	275
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	009376
LATITUDE:	53.56° N
LONGITUDE:	57.47° W
INSTRUMENT DEPTH:	2 m
WATER DEPTH:	3 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	27-JUN-2004 16:00 GMT
RECOVERY DATE/TIME:	31-AUG-2004 13:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUN-2004	13.30	180	15.90	182	14.48	0.62	58.0	42.0	80
JUL-2004	15.40	183	20.60	197	18.31	1.21	567.7	443.7	744
AUG-2004	15.10	243	20.50	233	17.90	1.18	554.0	430.0	734
T.PERIOD	13.30	180	20.60	197	17.92	1.44	1179.7	915.7	1558



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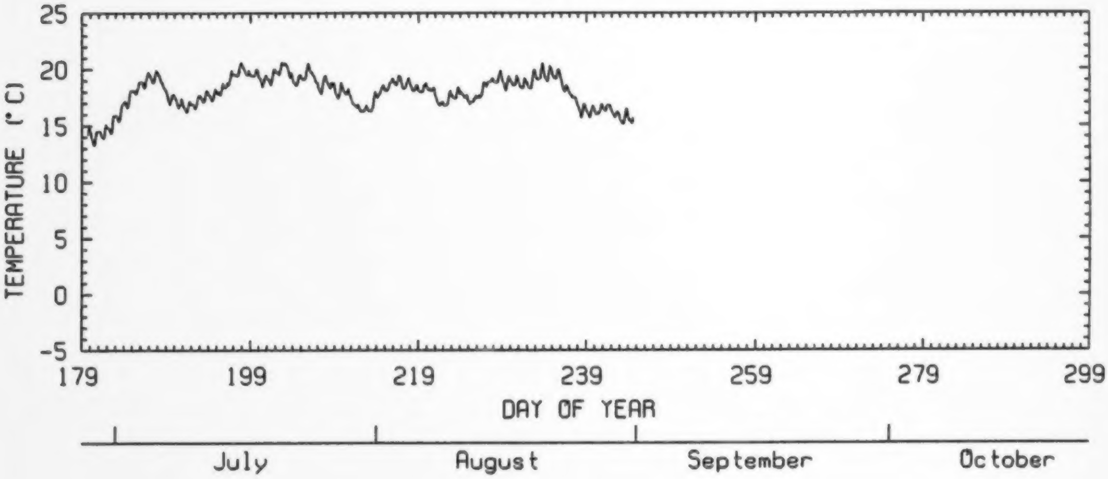
EAGLE RIVER



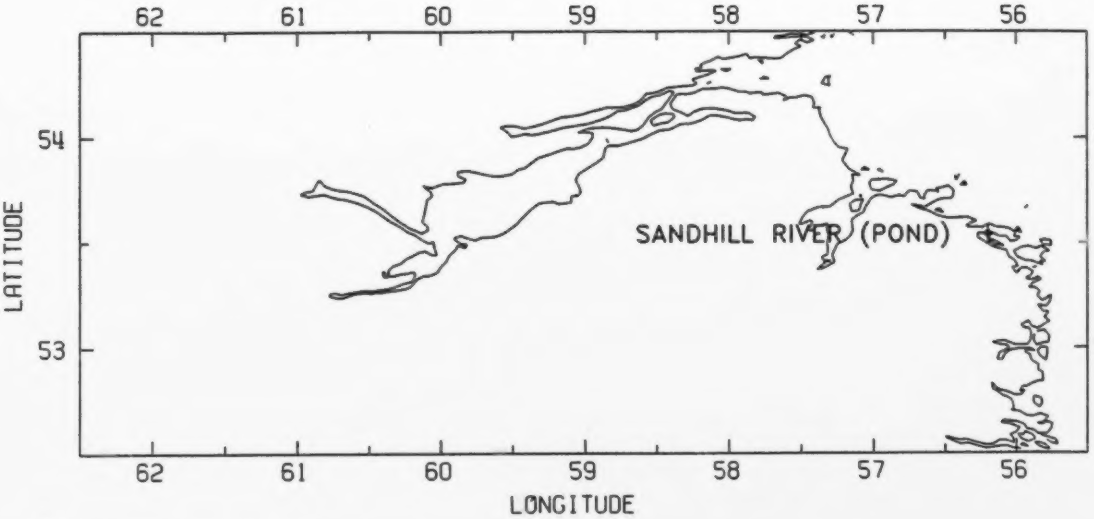
Start: 27-JUN-2004 End: 31-AUG-2004 Inst. S/N:9376

THERMOGRAPH DATA SUMMARY: SANDHILL RIVER (POND) (281) 2004

STATION NAME:	SANDHILL RIVER (POND)
STATION NUMBER:	281
INSTRUMENT TYPE:	Minilog-T (Vemco)
INSTRUMENT S/N:	003821
LATITUDE:	53.54° N
LONGITUDE:	56.20° W
INSTRUMENT DEPTH:	8 m
WATER DEPTH:	10 m
SAMPLE INTERVAL:	60 min.
DEPLOYMENT DATE/TIME:	07-JUL-2004 14:00 GMT
RECOVERY DATE/TIME:	03-SEP-2004 16:00 GMT

MONTHLY TEMPERATURE STATISTICS

DATE	MIN (°C)	DAY	MAX (°C)	DAY	MEAN (°C)	STD. DEV.	DEGREE DAY 0	DEGREE DAY 4	NO. SAMP.
JUL-2004	15.20	191	20.60	199	17.78	1.43	444.1	344.1	586
AUG-2004	14.10	243	19.90	234	17.40	1.31	539.2	415.2	744
SEP-2004	12.70	247	15.90	246	14.32	0.73	42.7	30.7	65
T.PERIOD	12.70	247	20.60	199	17.41	1.52	1026.0	790.0	1395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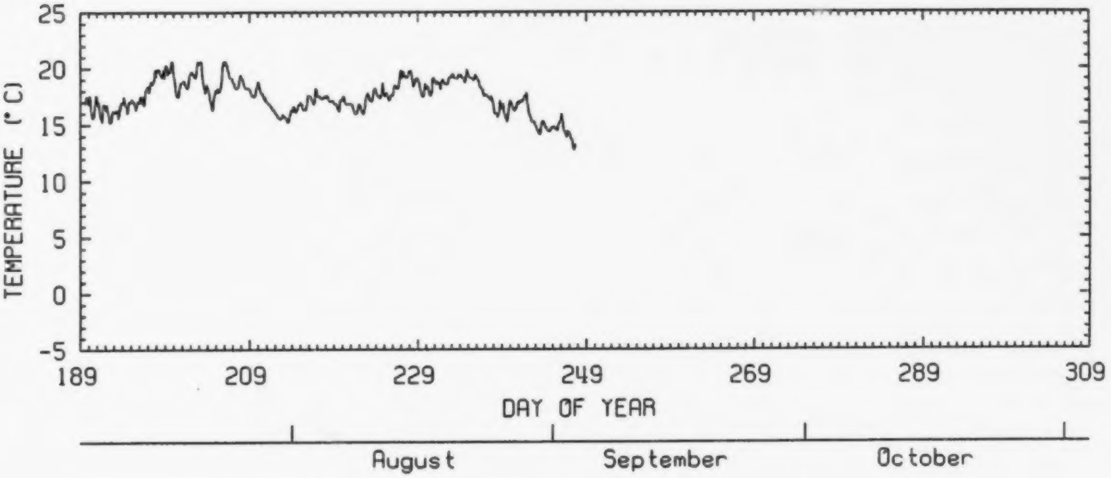
LATITUDE
SANDHILL RIVER (POND)
LONGITUDE



Start: 7-JUL-2004 End: 3-SEP-2004 Inst. S/N:3821